CASSETTE RECEIVER

KRC-758R/803/858R/C/W /883W/903/953 /958R/993

SERVICE MANUAL

KENWOOD

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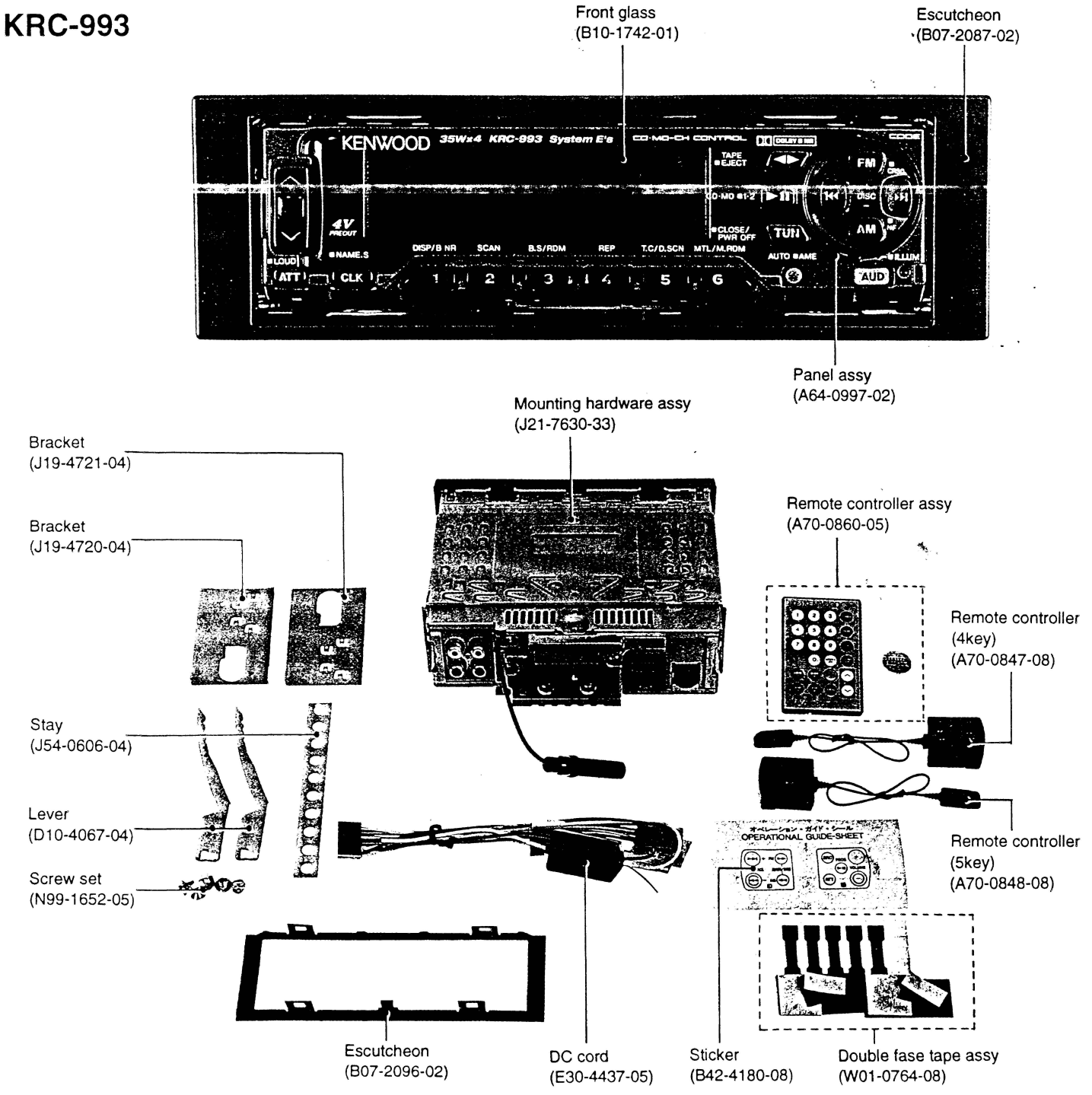
B51-7140-00 (S) 3620

The CASSETTE MECHANISM OPERATION DESCRIPTION is the same model KRC-503 or KRC-658R.
Please refer to the service manual for model KRC-503 (B51-7071-00) or KRC-658R (B51-7069-00).

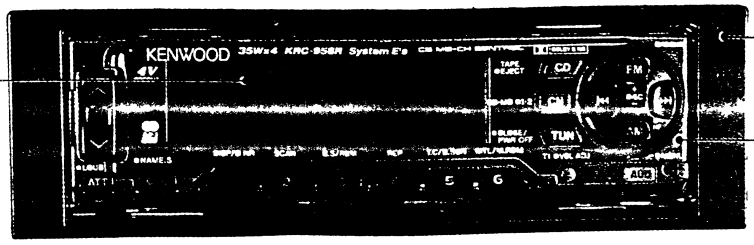
Extension cord	Parts No.
Cassette mechanism (7P)	W05-0477-00
Cassette mechanism (10P)	W05-0609-00

KRC-993



KRC-758R/803/858R/CW /883W/903/953/958R/993

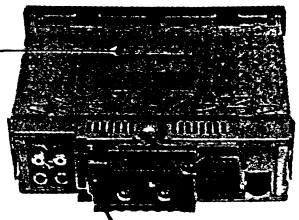
KRC-958R



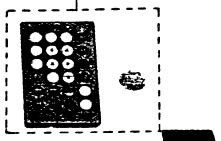
Front glass
(B10-1741-01)

Escutcheon
(B07-2087-02)

Panel assy
(A64-0996-02)

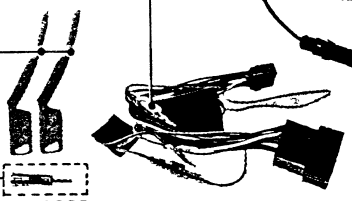


Mounting hardware assy
(J21-7630-33)



Remote controller assy
(A70-0860-05)

DC cord
(E30-4435-05)



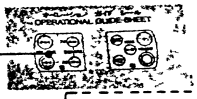
Lever
(D10-4067-04)

Remote controller (4key)
(A70-0847-08)

Remote controller (5key)
(A70-0848-08)

Antenna adaptor
(T90-0512-05)

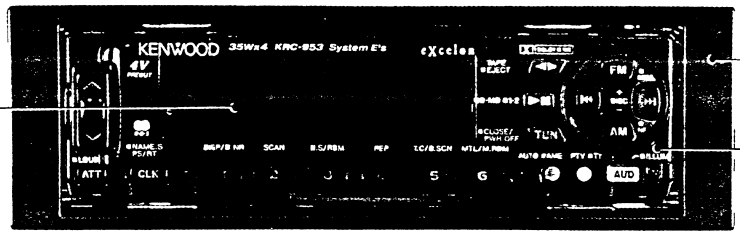
SEMS
(N09-1885-05)



Sticker
(B42-4180-08)

Double fase tape assy
(W01-0764-08)

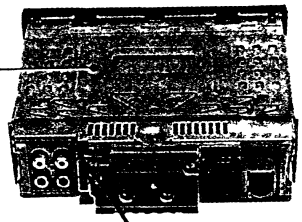
KRC-953



Front glass
(B10-1743-01)

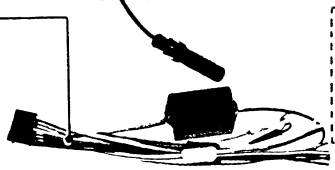
Escutcheon
(B07-2087-02)

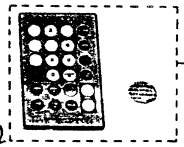
Panel assy
(A64-0998-02)



Mounting hardware assy
(J21-7630-33)

DC cord
(E30-4436-05)





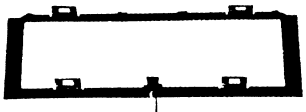
Remote controller assy
(A70-0860-05)

Lever
(D10-4067-04)

Screw set
(N99-1652-05)

Bracket
(J19-4721-04)

Bracket
(J19-4720-04)



Stay
(J54-0606-04)

Escutcheon
(B07-2096-02)

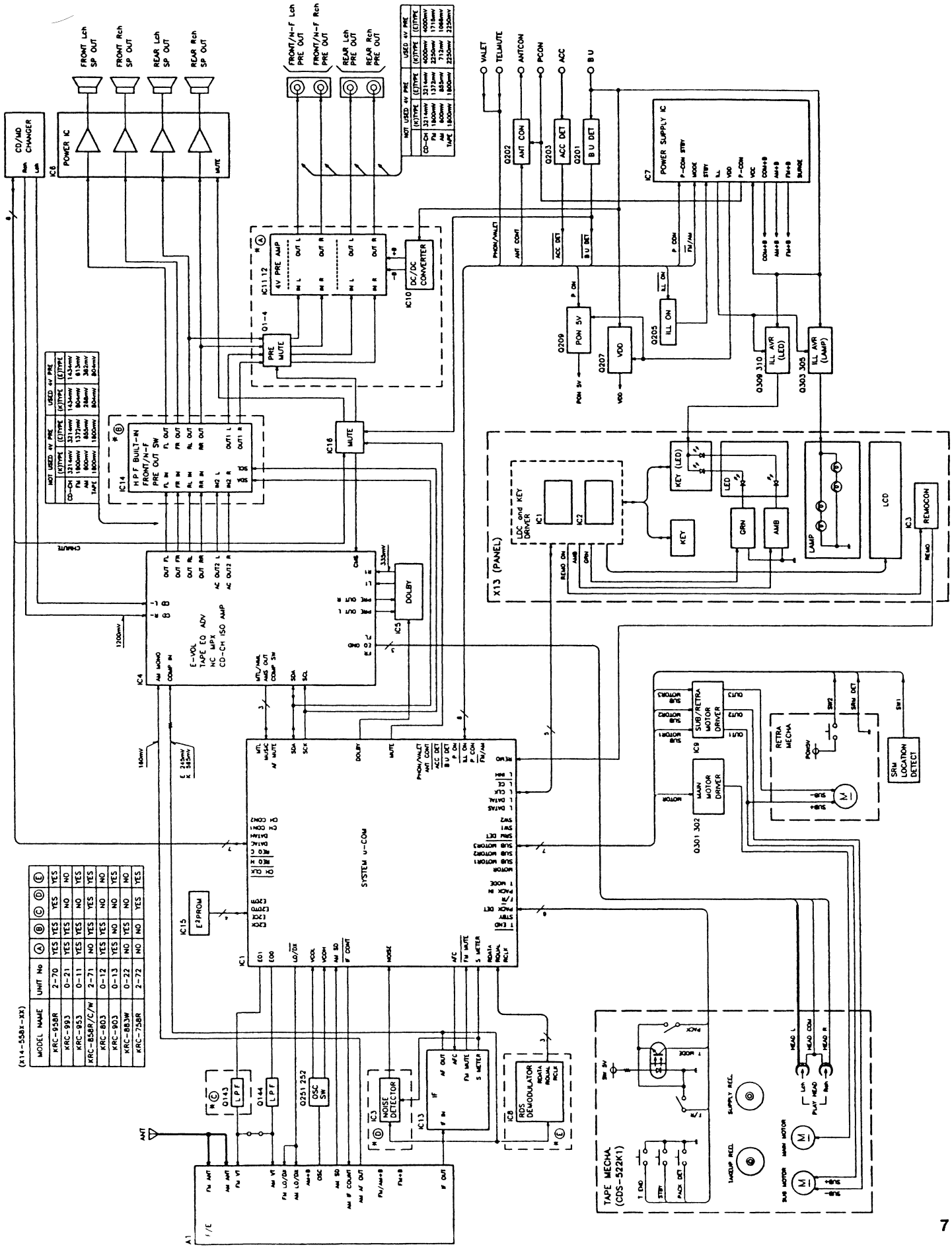
CIRCUIT DESCRIPTION

Description of components

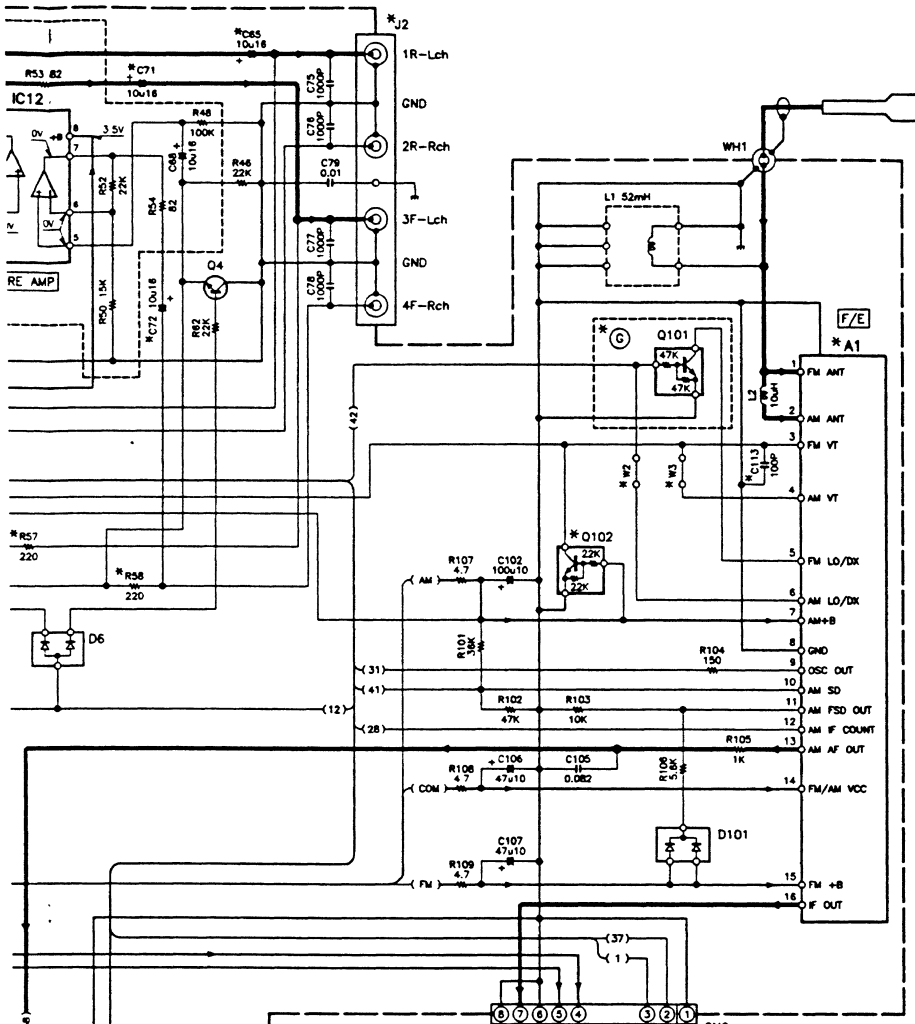
Synthesizer Unit (X14-558X-XX)

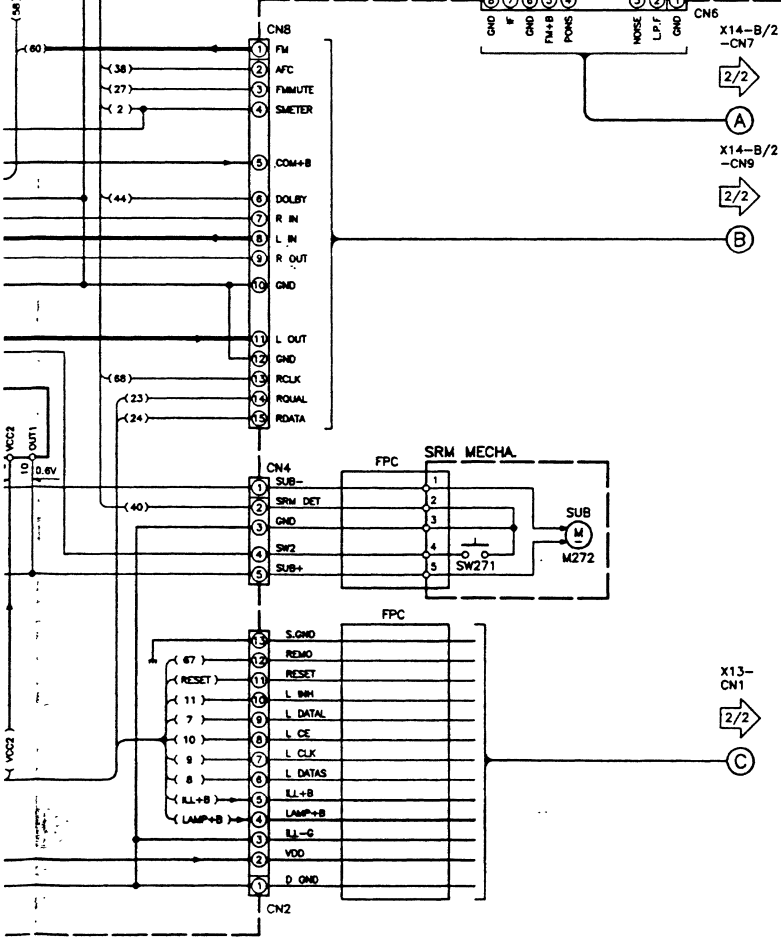
Device	Purpose,Function	Operation,condition,compatibility
IC1	System control u-CON	
IC2	Analog SW	LPF response speed switching.
IC3	Noise Amplifier	
IC4	Electronic volivme	Incorporates EQ amp, E-Vol circuit, NC, MPX, CD-CH ISO, T-ADV, METAL, bass, treble and loudness circuitry.
IC5	Dolby IC	
IC6	Power amplifier	
IC7	Multi power supply	
IC8	RDS Demodulator	
IC9	SUB/RETRA motor driver	
IC10	DC/DC converter	+/- power supply for the 4 V preamplifier.
IC11,12	PRE amplifer	For the 4 V preamplifier.
IC13	FM IF System	
IC14	Front/non-fader preout SW with built-in HPF	
IC15	E^2P ROM	
IC16	Triple 3-input NOR Gates	For muting.
Q1 ~ 4	PRE MUTE	ON for muting.
Q101	FM LO/DX SW	ON for local seek.
Q102	FM VT inhibit	ON for AM
Q121	Noise detect driver	Half-wave rectification.
Q122,123	Noise detection output time constant SW	ON during FM reception. (OFF during seek/search)
Q141	LPF time constant SW	ON during FM reception. (OFF during seek/search)
Q142	LPF constant current supply	
Q143	FM L.P.F	
Q144	AM L.P.F	
Q151	Sub-motor voltage SW	ON during SRM operation.
Q161,162	AFC time constant SW	ON during FM reception (OFF during seek/search)
Q163	AF Buff	
Q164	FM S-METER Buff	
Q165	IF Amp	
Q181	IC4 MUTE SW	ON for muting.
Q191	CRSC SW	In case of production of multi-path noise, etc., goes ON to force monaural reception.
Q201	B-U detect	OFF when the B-U voltage drops to about 8.8 V or lower.
Q202	ANT-CON driver	ON for tuner.
Q203	ACC detect	OFF when Acc voltage drops to about 7.4 V or lower.
Q204	ANT CON SW	ON for tuner.
Q205	ILL ON SW	When power is OFF and Acc is OFF, going "H" of PON turns ILL ON "H", which turns only ILL +B OFF.
Q206	P-on 5V SW	ON at power ON.
Q207	VDD driver	ON while B-U is supplied.
Q208	Pre-MUTE SW	ON for muting.
Q209	P-on 5V driver	ON at power ON.
Q231,232	CH-CON2 SW	ON with CH-CON 2.
Q241,242	IC10 power regulator	ON at power ON.
Q243,244	IC10 power regulator SW	ON at power ON.
Q245,246,247	IC11/12 +B regulator	
Q248,249,250	IC11/12 -B regulator	
Q251	FM OSC SW	ON in FM mode.
Q252	AM OSC SW	ON in AM mode

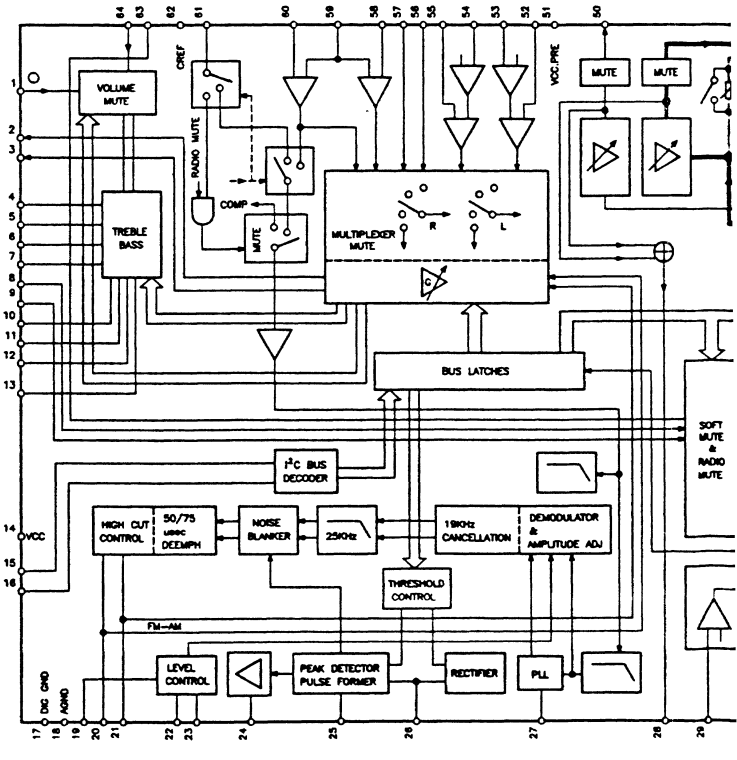
BLOCK DIAGRAM



(X14-558X-XX) MODEL NAME	UNIT No	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ
KRC-958R	2-70	YES	YES	YES	YES	YES
KRC-993	0-21	YES	YES	NO	NO	NO
KRC-953	0-11	YES	YES	NO	YES	YES
KRC-858R/C/W	2-71	NO	YES	YES	YES	YES
KRC-803	0-12	YES	YES	NO	NO	NO
KRC-903	0-13	YES	NO	NO	YES	YES
KRC-883W	0-22	NO	YES	NO	NO	NO
KRC-758R	2-72	NO	NO	YES	NO	YES







IC1	: *
IC2	: TC4W66F
IC4	: TDA7420
IC6	: TDA7384A
IC7	: BA3917-V4
IC9	: BA6238A
IC10	: TC7660SEOA
IC11,12	: NJM4565M-TE2
IC14	: TDA7435
IC15	: KKZ01F
IC16	: HD74HC27FP
Q1-4	: 2SD2114K
Q101,141,205,206,244,308,311	: DTC144EK
Q102,151,181,232,312	: DTC124EK
Q142,209,245,249,250	: 2SA1037K
Q143,144	: 2SK536
Q191,201,203,241,246-248 251,252,305,307,310	: 2SC2412K
Q202	: 2SB1277
Q204,302	: DTC114YK
Q207	: 2SD1760
Q208,231,306	: DTA124EK
Q242,301,304	: 2SB1443
Q243	: DTA114EK
Q303,309	: 2SB1184
D1-4,141,208	: DA204K
D5,6,205	: DAP202K
D101,181,182,206	: DAN202K
D142	: MA3068-M
D143	: MA3075-M
D201	: RM10ZLF
D202,204	: UZML6.8FB(Y)
D203,207,211,301	: AM01Z
D210	: 1SS181
D231-233	: UZMA6.2F
D234	: MA3062-M
D235	: DAN202K
D241	: MA3110-L
D242	: MA3056-M
D302	: MA3220-H
D303	: MA3047-M

(X14-556X-XX)

MODEL NAME	UNIT No.	Ⓐ
KRC-958R	X14-5582-70	YES
KRC-993	X14-5580-21	YES
KRC-953	X14-5580-11	YES
KRC-858R/C/W	X14-5582-71	NO
KRC-803	X14-5580-12	YES
KRC-903	X14-5580-13	YES
KRC-883W	X14-5580-22	NO
KRC-758R	X14-5582-72	NO

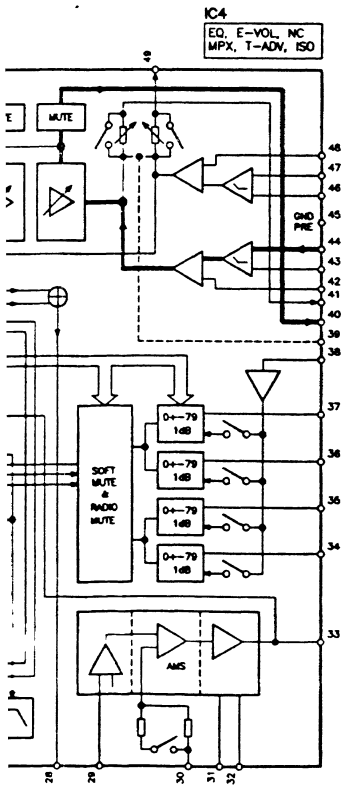
MODEL NAME	UNIT No.	R19 40
KRC-958R	X14-5582-70	NO
KRC-993	X14-5580-21	YES
KRC-953	X14-5580-11	YES
KRC-858R/C/W	X14-5582-71	NO
KRC-803	X14-5580-12	YES
KRC-903	X14-5580-13	YES
KRC-883W	X14-5580-22	YES
KRC-758R	X14-5582-72	NO

MODEL NAME	UNIT No.	D2(
KRC-958R	X14-5582-70	NO
KRC-993	X14-5580-21	YES
KRC-953	X14-5580-11	NO
KRC-858R/C/W	X14-5582-71	NO
KRC-803	X14-5580-12	NO
KRC-903	X14-5580-13	NO
KRC-883W	X14-5580-22	YES
KRC-758R	X14-5582-72	NO

UNIT No.	Ⓐ	Ⓑ	Ⓒ,Ⓖ	C29,30	C31-34	C47-54, 65,113	C66, 71,72	C186	C315	R55-58	R186	R187	R192, 323
X14-5582-70	YES	YES	YES	4 7	YES	YES	YES	0 01	0.01	NO	180K	3 6K	47K
X14-5580-21	YES	YES	NO	4 7	YES	NO	YES	0 1	0 047	NO	150K	3K	100K
X14-5580-11	YES	YES	NO	4 7	YES	NO	YES	0 1	0 047	NO	150K	3K	100K
X14-5582-71	NO	YES	YES	4 7	YES	YES	NO	0 01	0 01	YES	180K	3 6K	47K
X14-5580-12	YES	YES	NO	4 7	YES	NO	YES	0 1	0 047	NO	150K	3K	100K
X14-5580-13	YES	NO	NO	2 2	NO	NO	YES	0 1	0 047	NO	150K	3K	100K
X14-5580-22	NO	YES	NO	4 7	YES	NO	NO	0 1	0 047	YES	150K	3K	100K
X14-5582-72	NO	NO	YES	2.2	NO	YES	NO	0.01	0.01	YES	10K	3.6K	47K

UNIT No.	R198, 404	R199	R202,207, 209,359	R324	R326, 405	R335	R336	R338	R339	R358	Q102	Q202, 204	D181
X14-5582-70	NO	18K	NO	22K	YES	YES	NO	NO	YES	NO	YES	NO	YES
X14-5580-21	YES	39K	YES	100K	NO	NO	YES	NO	YES	NO	NO	YES	NO
X14-5580-11	YES	39K	NO	100K	NO	NO	YES	NO	YES	YES	NO	NO	NO
X14-5582-71	NO	18K	NO	22K	YES	YES	NO	YES	NO	NO	YES	NO	YES
X14-5580-12	YES	39K	NO	100K	NO	NO	YES	YES	NO	YES	NO	NO	NO
X14-5580-13	YES	39K	NO	100K	NO	YES	NO	NO	YES	YES	NO	NO	NO
X14-5580-22	YES	39K	YES	100K	NO	YES	NO	NO	YES	NO	NO	YES	NO
X14-5582-72	NO	18K	NO	22K	YES	NO	YES	NO	NO	NO	YES	NO	YES

UNIT No	D203	W2	W3,4	W9-14, 17-20	J2	A1	IC1
X14-5582-70	NO	YES	NO	NO	GOLD	W02-1523	178018BGC511
X14-5580-21	YES	NO	YES	NO	GOLD	W02-1524	178016BGC514
X14-5580-11	NO	NO	YES	NO	GOLD	W02-1524	178018BGC513
X14-5582-71	NO	YES	NO	NO	E63-0828	W02-1523	178018BGC511
X14-5580-12	NO	NO	YES	NO	E63-0828	W02-1524	178018BGC513
X14-5580-13	NO	NO	YES	YES	E63-0828	W02-1523	178018BGC513
X14-5580-22	YES	NO	YES	NO	E63-0828	W02-1523	178018BGC513
X14-5582-72	NO	YES	NO	YES	E63-0828	W02-1524	178018BGC511



DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

KRC-758R/803/858R/CW /883W/903/953/958R/993

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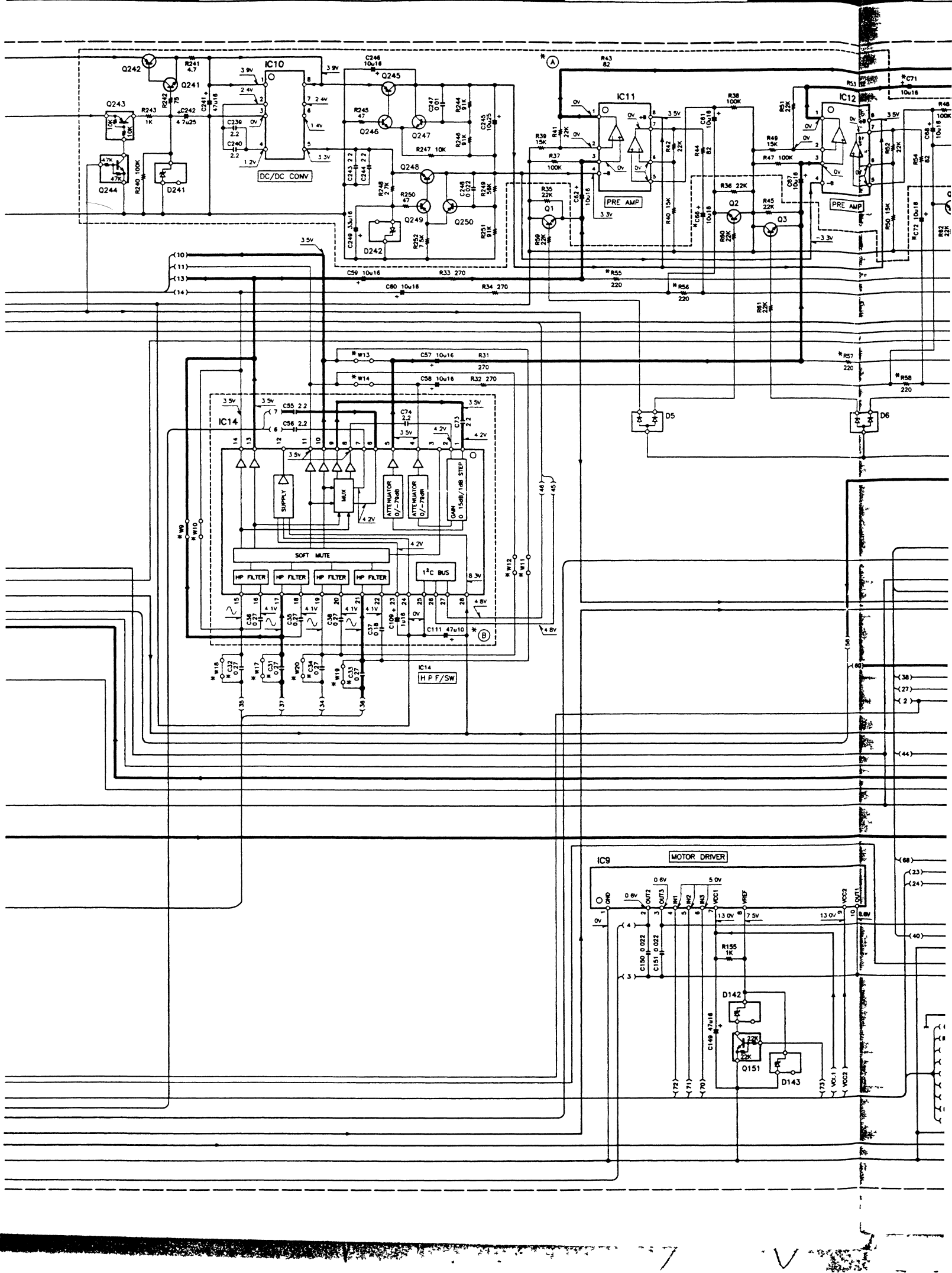
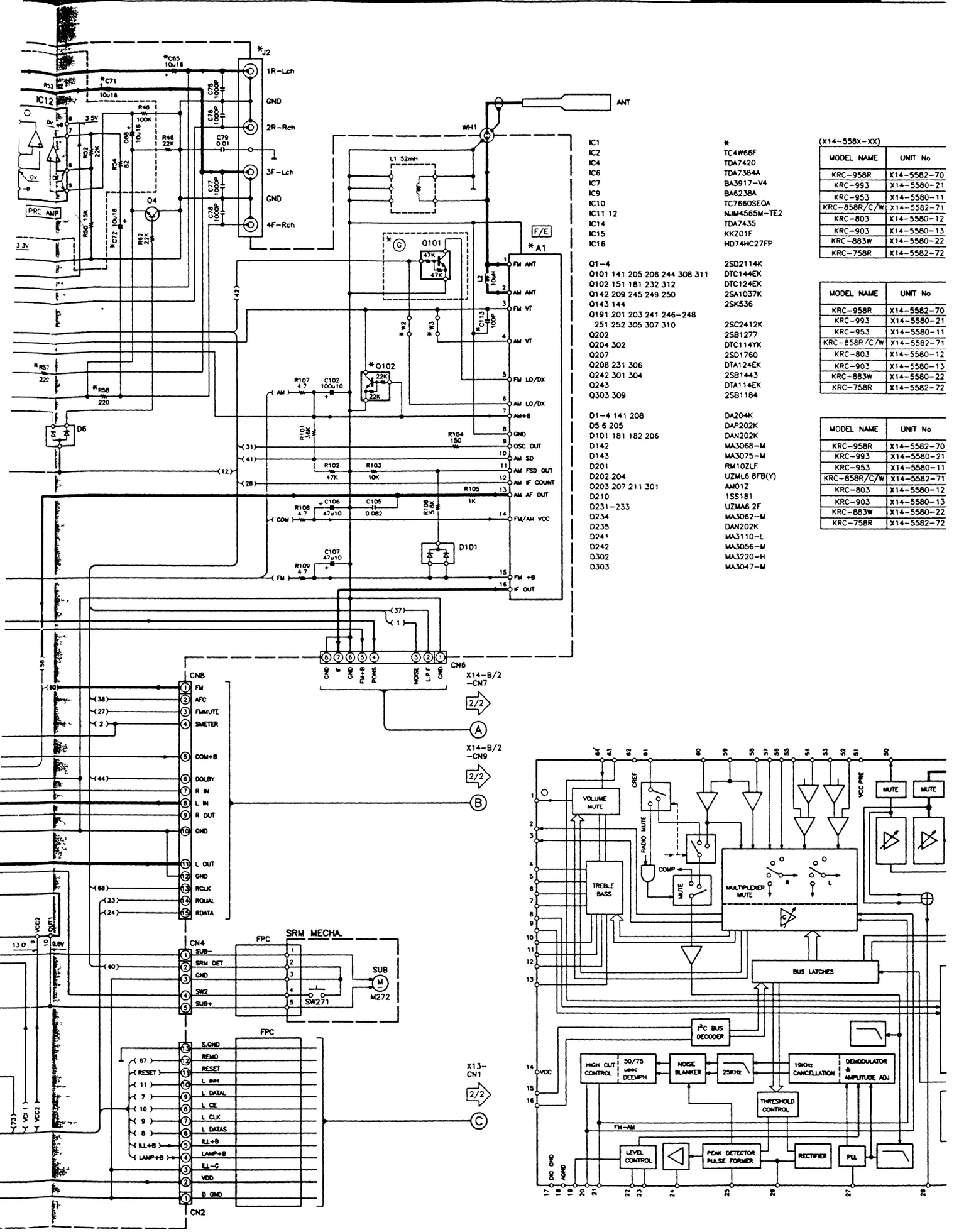
O P Q R S


IC10
DC/DC CONV
IC11
IC12
PRE AMP
PRE AMP
IC14
SUPPLY
MUX
ATTENUATOR 0/-78dB
ATTENUATOR 0/-78dB
GAIN 0 15dB/1dB STEP
SOFT MUTE
HP FILTER
HP FILTER
HP FILTER
HP FILTER
I²C BUS
IC14
H P F/SW
IC9
MOTOR DRIVER
Q242
Q241
Q243
Q244
D241
Q245
Q246
Q247
Q248
Q249
Q250
D242
Q1
Q2
Q3
D5
D6
D142
Q151
D143



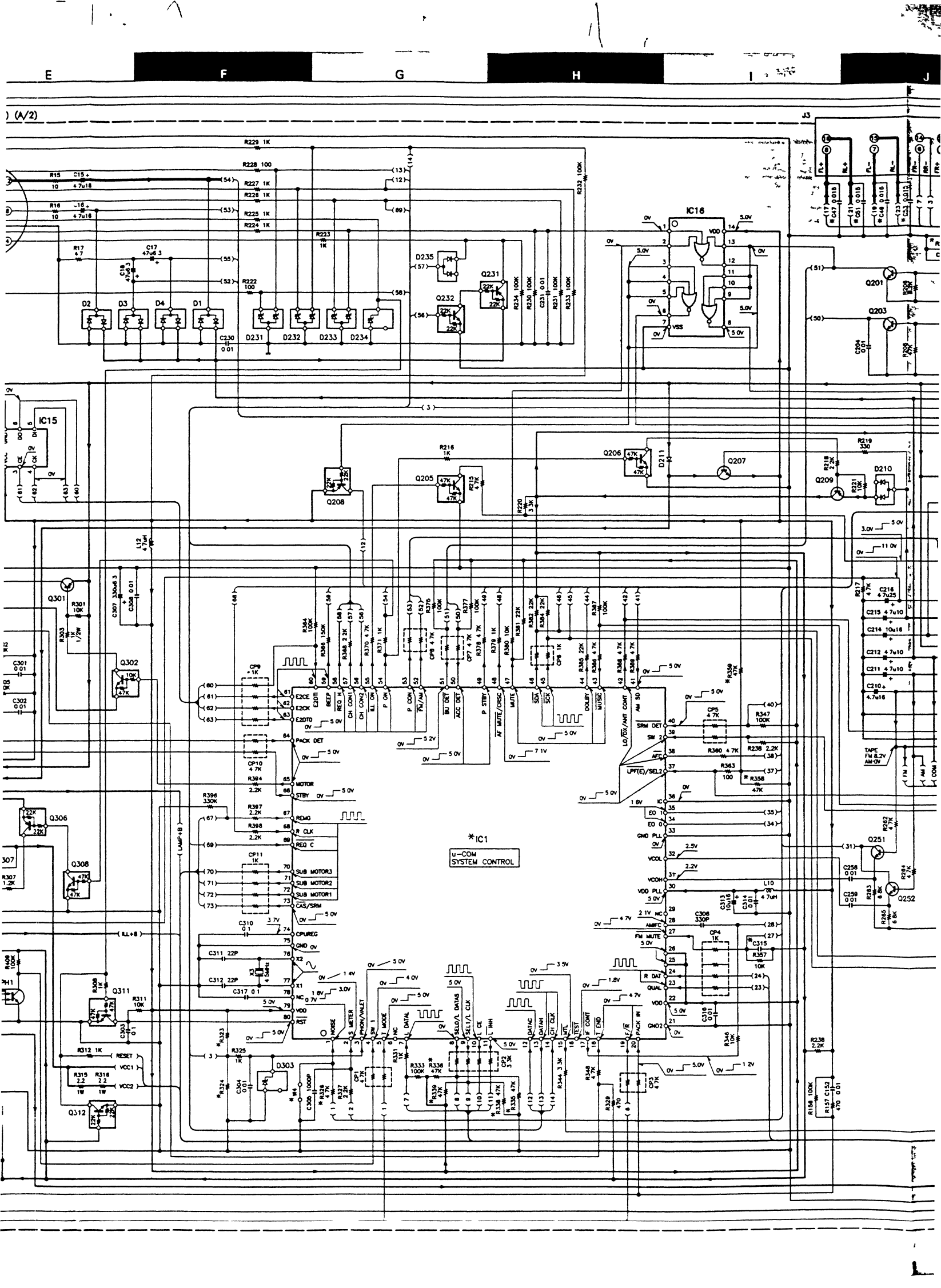
IC1	TC4W66F
IC2	TDA7420
IC4	TDA7384A
IC6	BA3917-V4
IC7	BA6238A
IC9	TC7660SEOA
IC10	NJM4565M-TE2
IC11 12	TDA7435
IC14	KKZ01F
IC15	HD74HC27FP
IC16	
Q1-4	2SD2114K
Q101 141 205 206 244 308 311	DTC144EK
Q102 151 181 232 312	DTC124EK
Q142 209 245 249 250	2SA1037K
Q143 144	2SK536
Q191 201 203 241 246-248 251 252 305 307 310	2SC2412K
Q202	2SB1277
Q204 302	DTC114YK
Q207	2SD1760
Q208 231 306	DTA124EK
Q242 301 304	2SB1443
Q243	DTA114EK
Q303 309	2SB1184
D1-4 141 208	DA204K
D5 6 205	DAP202K
D101 181 182 206	DAN202K
D142	MA3068-M
D143	MA3075-M
D201	RM10ZLF
D202 204	UZML6 8FB(Y)
D203 207 211 301	AM01Z
D210	1SS181
D231-233	UZMA6 2F
D234	MA3062-M
D235	DAN202K
D241	MA3110-L
D242	MA3056-M
D302	MA3220-H
D303	MA3047-M

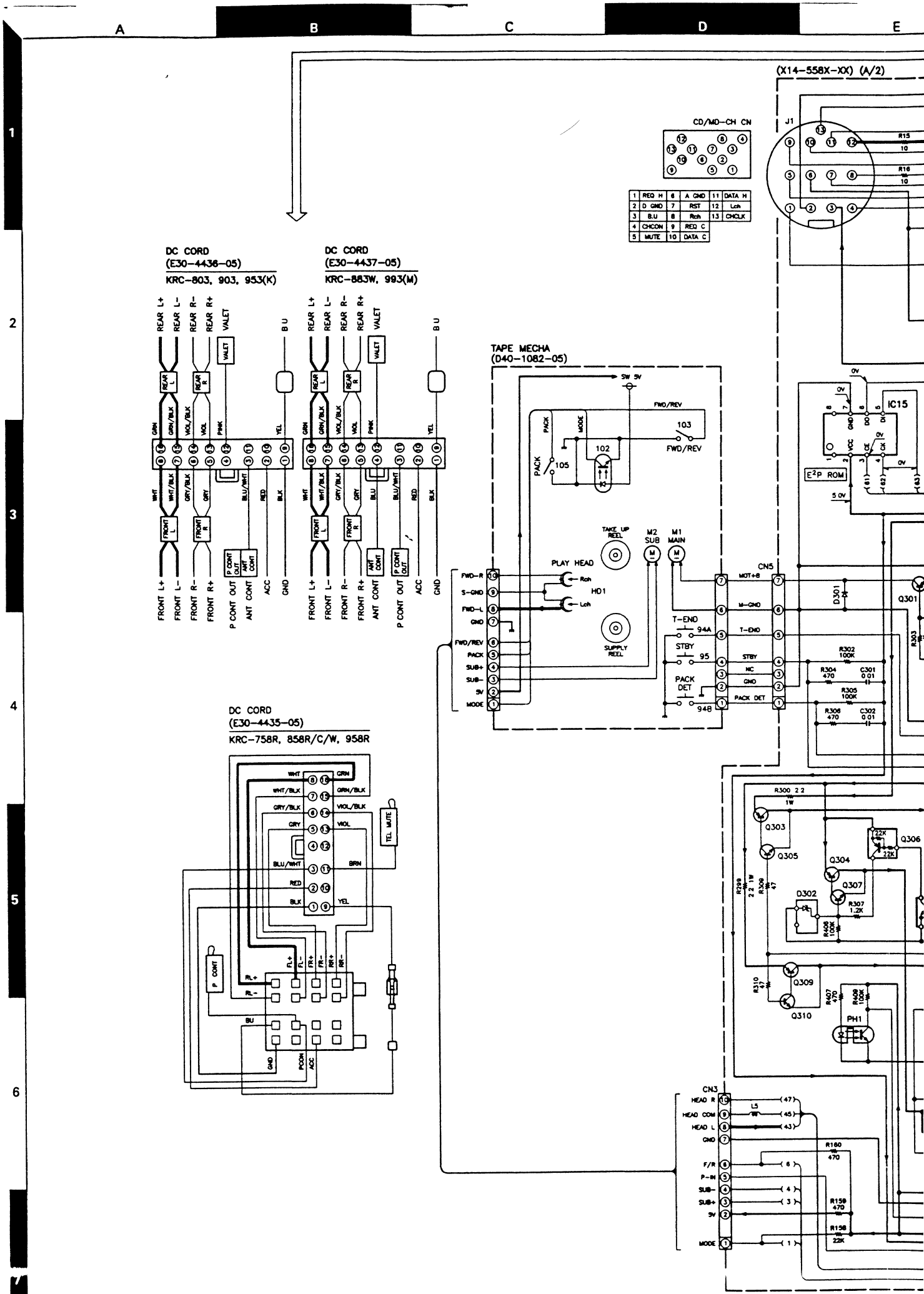
(X14-558x-XX)

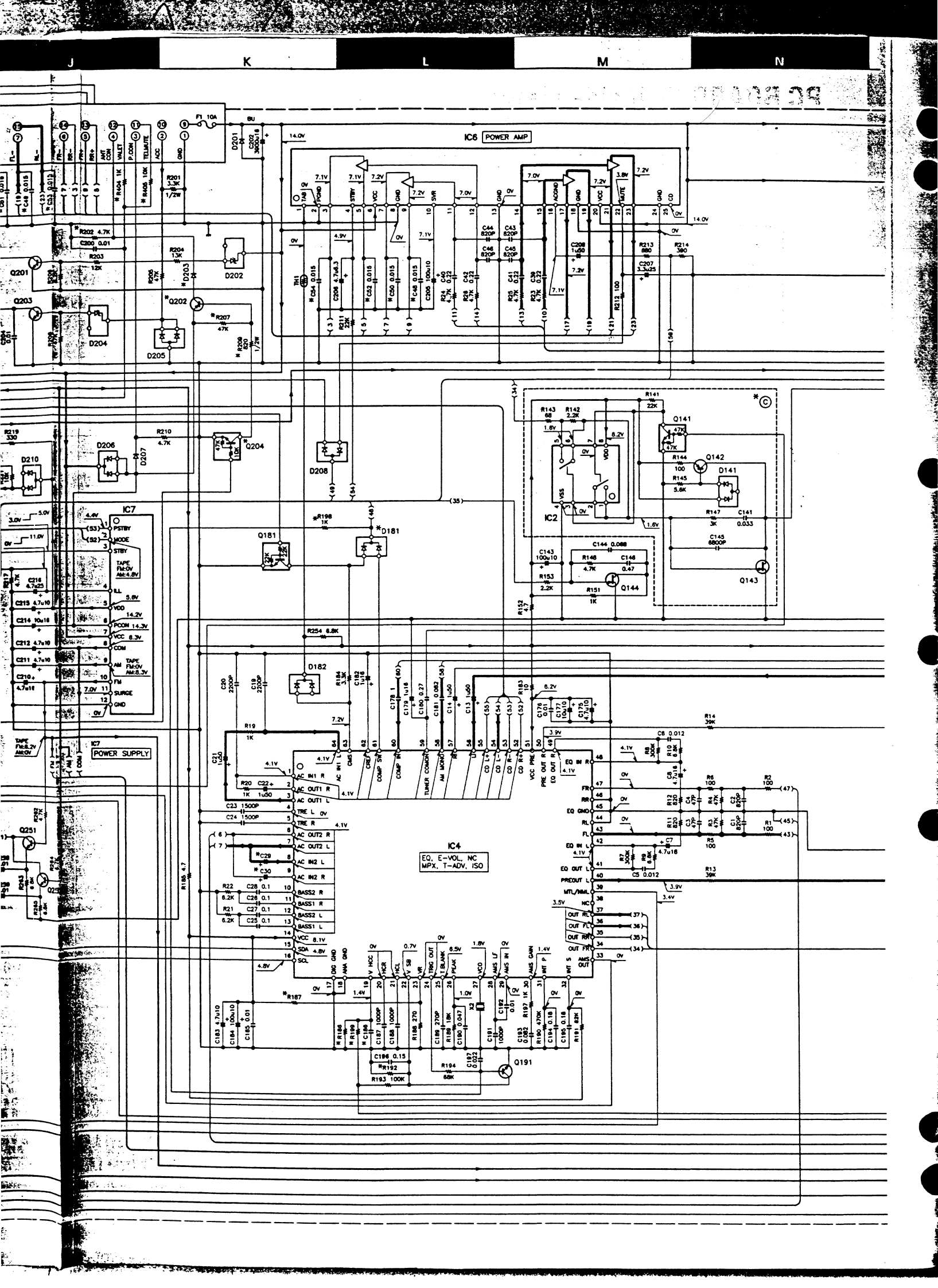
MODEL NAME	UNIT No
KRC-958R	X14-5582-70
KRC-993	X14-5580-21
KRC-953	X14-5580-11
KRC-858R/C/W	X14-5582-71
KRC-803	X14-5580-12
KRC-903	X14-5580-13
KRC-883W	X14-5580-22
KRC-758R	X14-5582-72

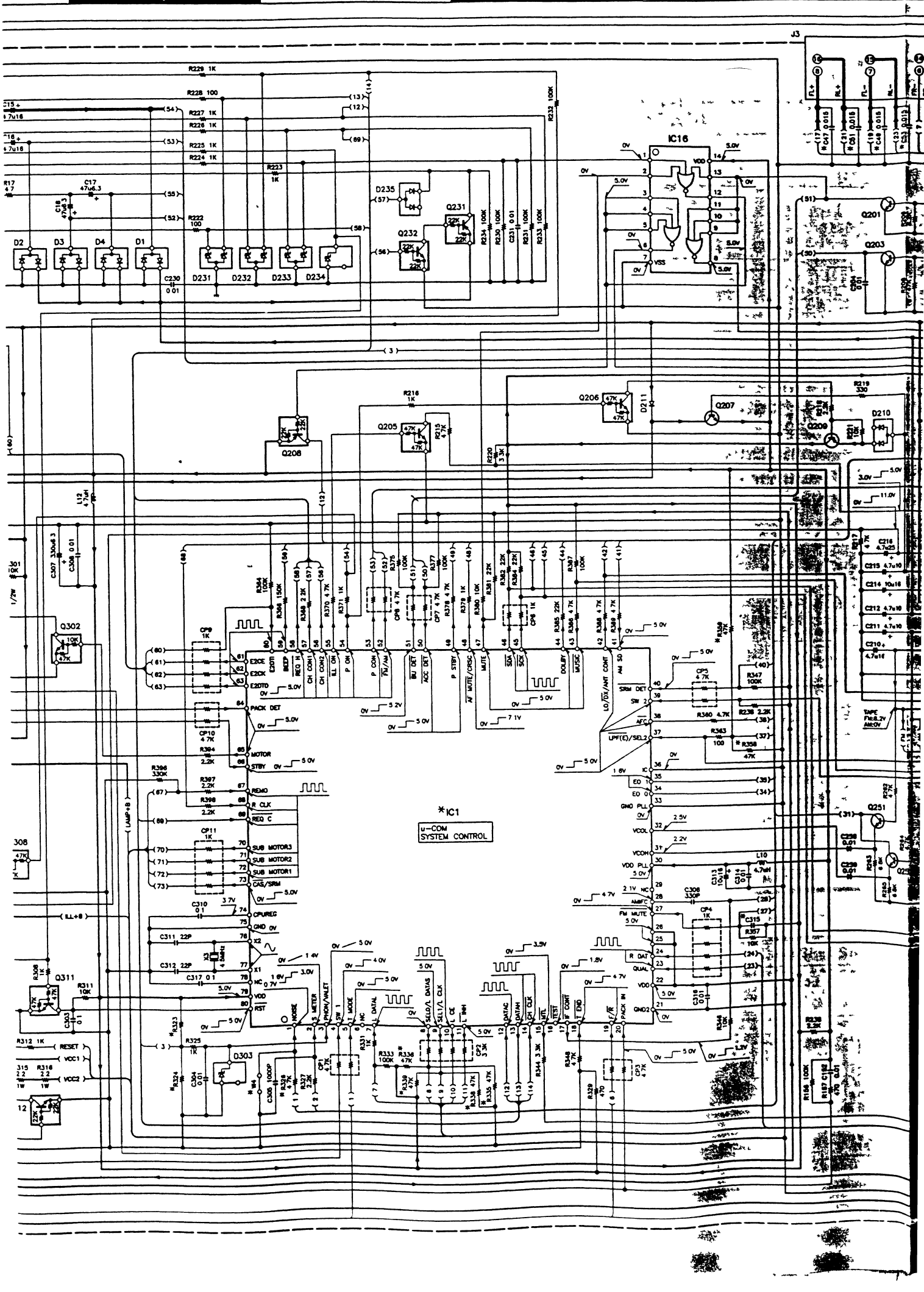
MODEL NAME	UNIT No
KRC-958R	X14-5582-70
KRC-993	X14-5580-21
KRC-953	X14-5580-11
KRC-858R/C/W	X14-5582-71
KRC-803	X14-5580-12
KRC-903	X14-5580-13
KRC-883W	X14-5580-22
KRC-758R	X14-5582-72

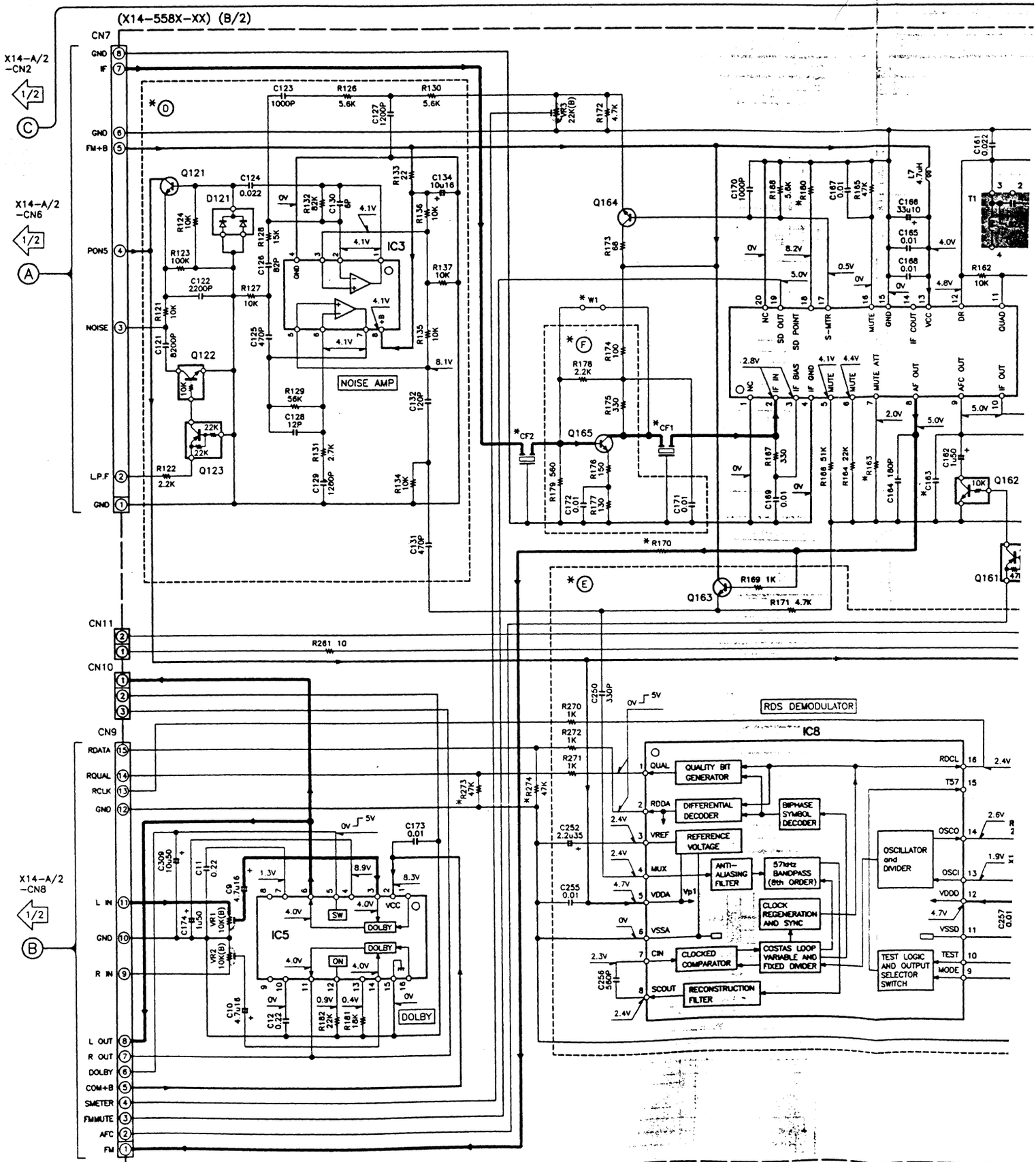
MODEL NAME	UNIT No
KRC-958R	X14-5582-70
KRC-993	X14-5580-21
KRC-953	X14-5580-11
KRC-858R/C/W	X14-5582-71
KRC-803	X14-5580-12
KRC-903	X14-5580-13
KRC-883W	X14-5580-22
KRC-758R	X14-5582-72


(A/2)
J3
IC16
IC15
Q201
Q203
Q205
Q206
Q207
Q208
Q209
D210
D211
Q301
Q302
Q306
Q308
Q311
Q312
Q303
Q251
Q252
*IC1
μ-COM
SYSTEM CONTROL
RESET
VCC1
VCC2
(LAMP+B)
(ILL+B)
TAPE
FM 8.2V
AM 0V


A
B
C
D
E
1
2
3
4
5
6
7
(X14-558X-XX) (A/2)
CD/MD-CH CN
J1
1 REQ H 6 A GND 11 DATA H
2 D GND 7 RST 12 Lch
3 B.U 8 Rch 13 CHCLK
4 CHCON 9 REQ C
5 MUTE 10 DATA C
DC CORD
(E30-4436-05)
KRC-803, 903, 953(K)
DC CORD
(E30-4437-05)
KRC-883W, 993(M)
REAR L+
REAR L-
REAR R-
REAR R+
VALET
B U
GRN
GRN/BLK
VIOL/BLK
VIOL
PINK
YEL
WHT
WHT/BLK
GRY/BLK
GRY
BLU/WHT
BLU
RED
BLK
FRONT L+
FRONT L-
FRONT R-
FRONT R+
P CONT OUT
ANT CONT
ACC
GND
TAPE MECHA
(D40-1082-05)
SW 5V
FWD/REV
PACK
MODE
102
103
105
TAKE UP REEL
M2 SUB
M1 MAIN
PLAY HEAD
Rch
Lch
HD1
SUPPLY REEL
CN5
FWD-R
S-GND
FWD-L
GND
FWD/REV
PACK
SUB+
SUB-
5V
MODE
MOT+B
M-GND
T-END
STBY
NC
PACK DET
94A
95
948
IC15
E²P ROM
5.0V
0V
D301
Q301
R302 100K
R304 470
C301 0.01
R305 100K
R306 470
C302 0.01
DC CORD
(E30-4435-05)
KRC-758R, 858R/C/W, 958R
TEL MUTE
P CONT
FL+
FL-
FR+
FR-
RR+
RR-
RL+
RL-
BU
GND
POON
ACC
R300 2.2 1W
Q303
Q305
Q304
Q307
Q306
22K
D302
R307 1.2K
R408 100K
R299 2.2 1W
R309 47
R310 47
Q309
Q310
R407 470
R409 100K
PH1
CN3
HEAD R
HEAD COM
HEAD L
GND
F/R
P-IN
SUB-
SUB+
5V
MODE
L5
R160 470
R159 470
R158 22K


J
K
L
M
N
IC6 POWER AMP
IC7
POWER SUPPLY
IC2
IC4
EQ, E-VOL, NC
MPX, T-ADV, ISO
Q201
Q202
Q203
Q204
Q251
Q252
Q181
Q141
Q142
Q143
Q144
Q191
D201
D202
D203
D204
D205
D206
D207
D208
D210
D181
D182
D141
F1 10A
BU
PSTBY
MODE
STBY
PCON
VCC
COM
SURCE
GND
VDD
AC IN1 R
AC OUT1 R
AC OUT1 L
AC OUT2 R
AC OUT2 L
AC IN2 L
AC IN2 R
VCC
SDA
SCL
EQ IN R
EQ IN L
EQ OUT R
EQ OUT L
EQ GND
PRECUT L
MTL/NML
OUT FR
OUT RR
OUT FL
OUT RL
POWER AMP
STBY
PGND
VCC
GND
SVR
AGND
MUTE
CD
POWER SUPPLY
PSTBY
MODE
STBY
VDD
PCON
VCC
COM
SURCE
GND
TAPE
FM
AM
IC2
VSS
VDD
IC4
EQ, E-VOL, NC
MPX, T-ADV, ISO

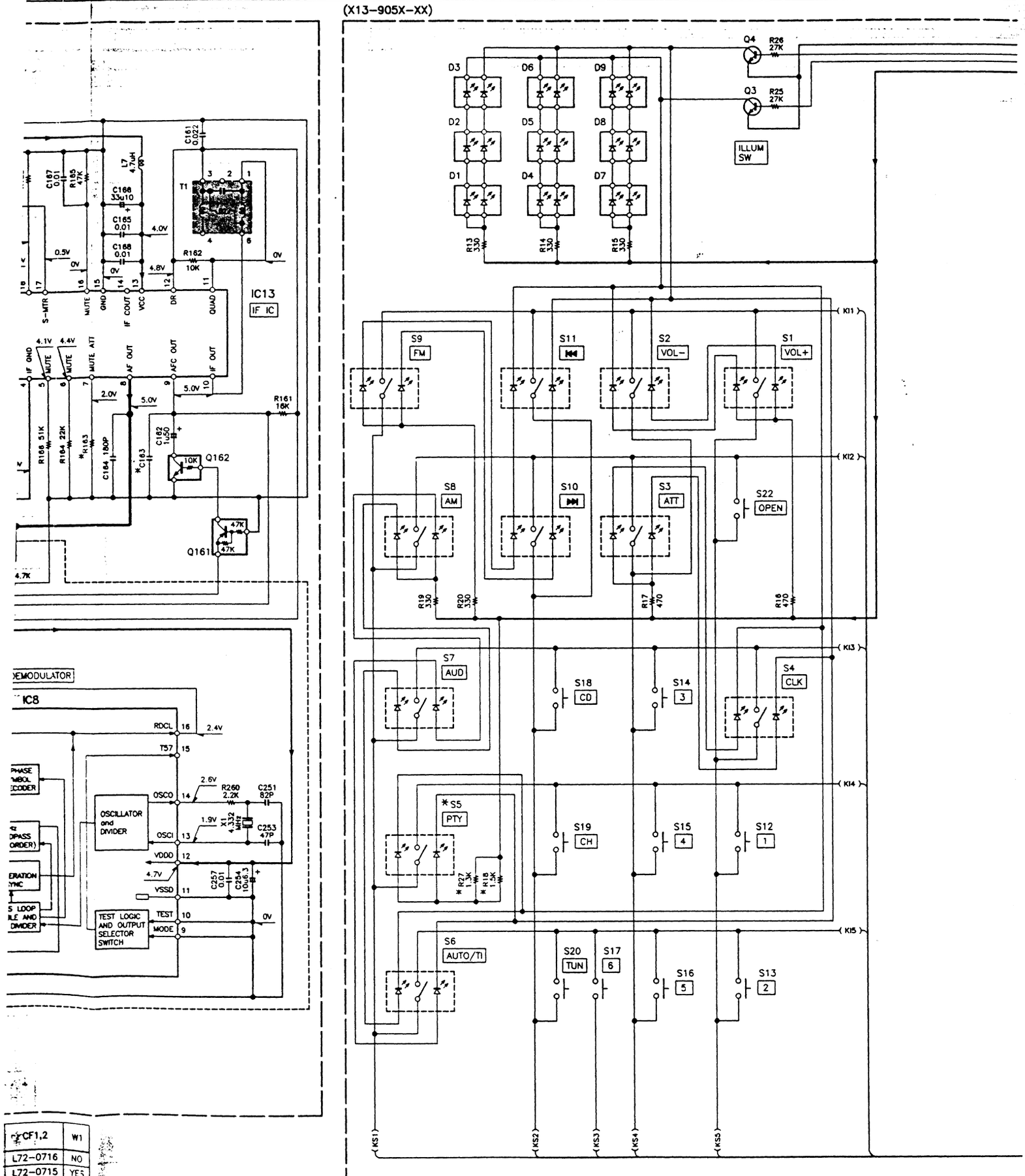

F
G
H
I
IC16
*IC1
μ-COM
SYSTEM CONTROL



IC3	: NJM4565M-TE2
IC5	: HA12134AF
IC8	: SAA6579T
IC13	: LA1145M
Q121,163,164	: 2SC2412K
Q122,162	: DTC114TK
Q123	: DTA124EK
Q161	: DTA144EK
Q165	: 2SC2413K
	: DAN202K

MODEL NAME	UNIT No.	Ⓓ,Ⓕ	Ⓔ	C163	R163	R170	R180	R273, R274	✱CF1,2	W1
KRC-958R	X14-5582-70	YES	YES	0.1	12K	7.5K	3.9K	NO	L72-0716	NO
KRC-993	X14-5580-21	NO	NO	0.47	8.2K	20K	6.8K	YES	L72-0715	YES
KRC-953	X14-5580-11	NO	YES	0.47	8.2K	20K	6.8K	NO	L72-0715	YES
KRC-858R/C/W	X14-5582-71	YES	YES	0.1	12K	12K	3.9K	NO	L72-0716	NO
KRC-803	X14-5580-12	NO	NO	0.47	8.2K	20K	6.8K	YES	L72-0715	YES
KRC-903	X14-5580-13	NO	YES	0.47	8.2K	20K	6.8K	NO	L72-0715	YES
KRC-883W	X14-5580-22	NO	NO	0.47	8.2K	24K	6.8K	YES	L72-0715	YES
KRC-758R	X14-5582-72	YES	YES	0.1	12K	12K	3.9K	NO	L72-0716	NO

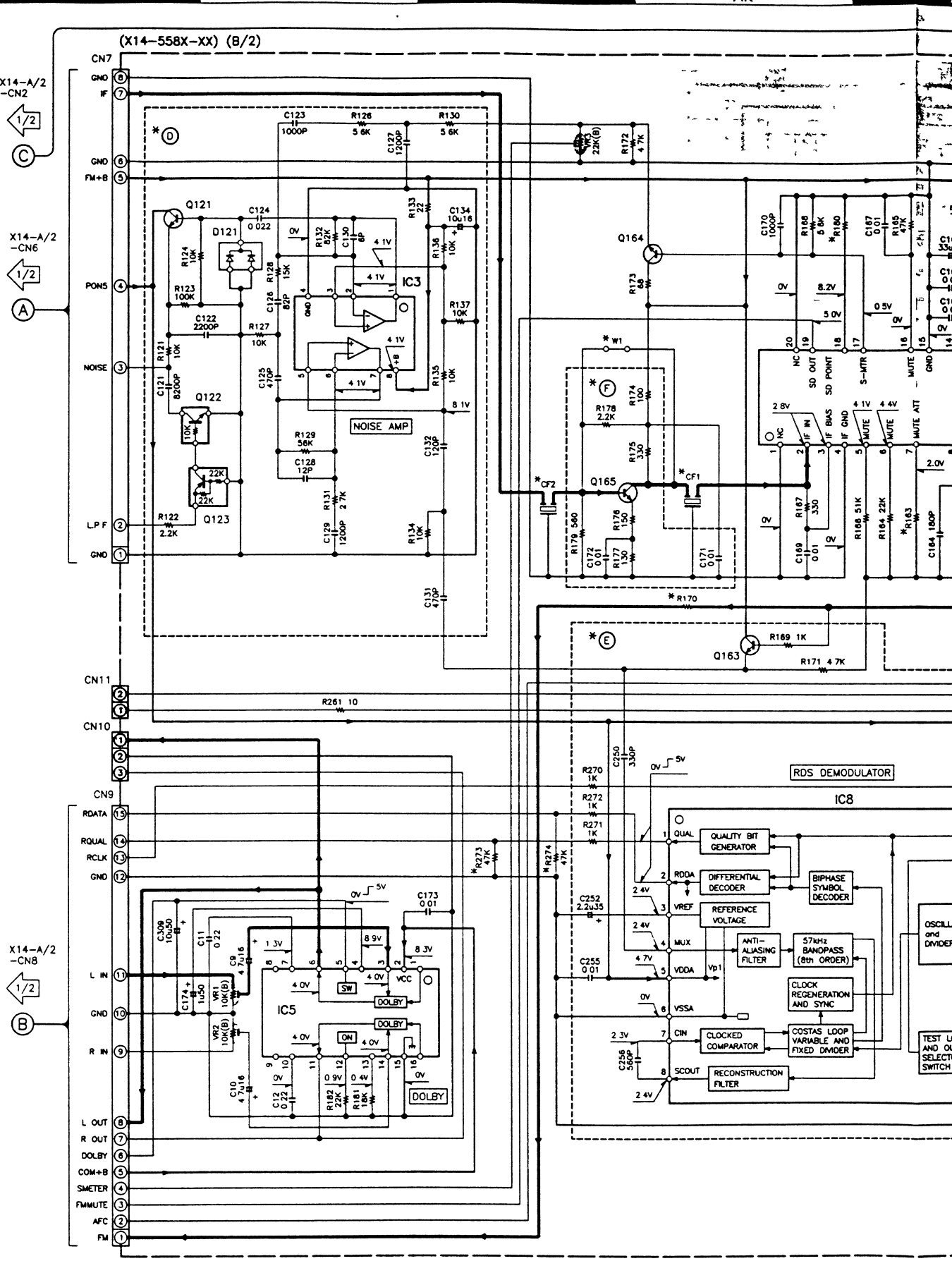
(X13-905X-XX)



IC1	: LC75853NE	Q1,2	: DTA114EK
IC2	: LC75833E	Q3,4	: 2SD2114K
IC3	: PAS-B06B1FE	D1-9	: B30-1349-05

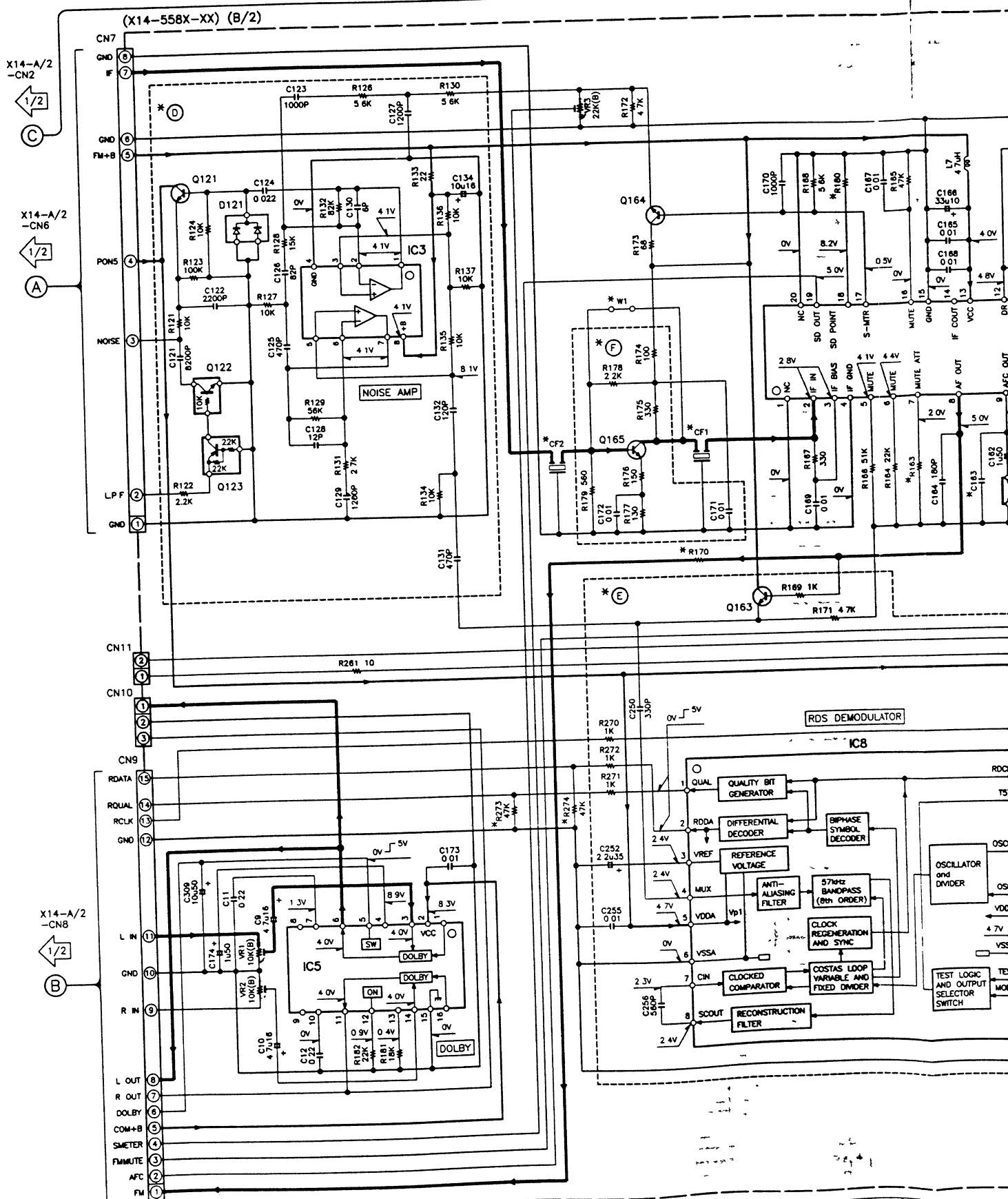
GND LINE
+B LINE

*CF1,2	W1
L72-0716	NO
L72-0715	YES
L72-0715	YES
L72-0716	NO
L72-0715	YES
L72-0715	YES
L72-0715	YES
L72-0716	NO



IC3	NJM4565M-TE2
IC5	HA12134AF
IC8	SAA6579T
IC13	LA1145M
Q121,163,164	2SC2412K
Q122,162	DTC114TK
Q123	DTA124EK
Q161	DTA144EK
Q165	2SC2413K
D121	DAN202K

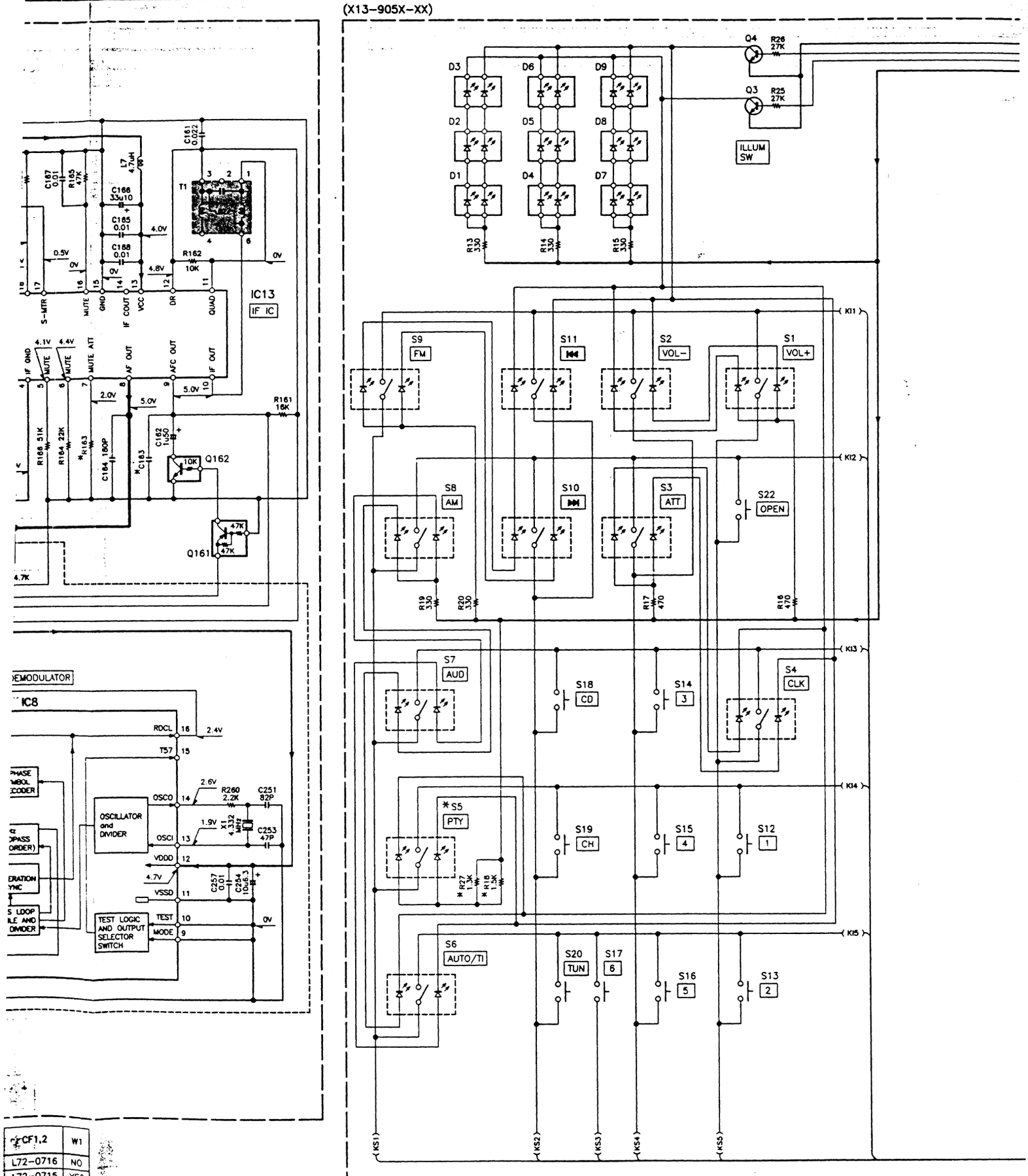
MODEL NAME	UNIT No	Ⓓ,Ⓕ	Ⓔ	C163	R163	R170	R180	R273, R274	CF1,2	W1
KRC-958R	X14-5582-70	YES	YES	0 1	12K	7 5K	3 9K	NO	L72-0716	NO
KRC-993	X14-5580-21	NO	NO	0 47	8 2K	20K	6 8K	YES	L72-0715	YES
KRC-953	X14-5580-11	NO	YES	0 47	8 2K	20K	6 8K	NO	L72-0715	YES
KRC-858R/C/W	X14-5582-71	YES	YES	0 1	12K	12K	3 9K	NO	L72-0716	NO
KRC-803	X14-5580-12	NO	NO	0 47	8 2K	20K	6 8K	YES	L72-0715	YES
KRC-903	X14-5580-13	NO	YES	0 47	8 2K	20K	6 8K	NO	L72-0715	YES
KRC-883W	X14-5580-22	NO	NO	0 47	8 2K	24K	6 8K	YES	L72-0715	YES
KRC-758R	X14-5582-72	YES	YES	0 1	12K	12K	3 9K	NO	L72-0716	NO



IC3	NJM4565M-TE2
IC5	HA12134AF
IC8	SAA6579T
IC13	LA1145M
Q121 163 164	2SC2412K
Q122 162	DTC114TK
Q123	DTA124EK
Q161	DTA144EK
Q165	2SC2413K
	DAN202K

MODEL NAME	UNIT No	Ⓓ,Ⓕ	Ⓔ	C163	R163	R170	R180	R273, R274	✱CF1,2	W1
KRC-958R	X14-5582-70	YES	YES	0.1	12K	7.5K	3.9K	NO	L72-0716	NO
KRC-993	X14-5580-21	NO	NO	0.47	8.2K	20K	6.8K	YES	L72-0715	YES
KRC-953	X14-5580-11	NO	YES	0.47	8.2K	20K	6.8K	NO	L72-0715	YES
KRC-858R/C/W	X14-5582-71	YES	YES	0.1	12K	12K	3.9K	NO	L72-0716	NO
KRC-803	X14-5580-12	NO	NO	0.47	8.2K	20K	6.8K	YES	L72-0715	YES
KRC-903	X14-5580-13	NO	YES	0.47	8.2K	20K	6.8K	NO	L72-0715	YES
KRC-883W	X14-5580-22	NO	NO	0.47	8.2K	24K	6.8K	YES	L72-0715	YES
KRC-758R	X14-5582-72	YES	YES	0.1	12K	12K	3.9K	NO	L72-0716	NO

(X13-905X-XX)

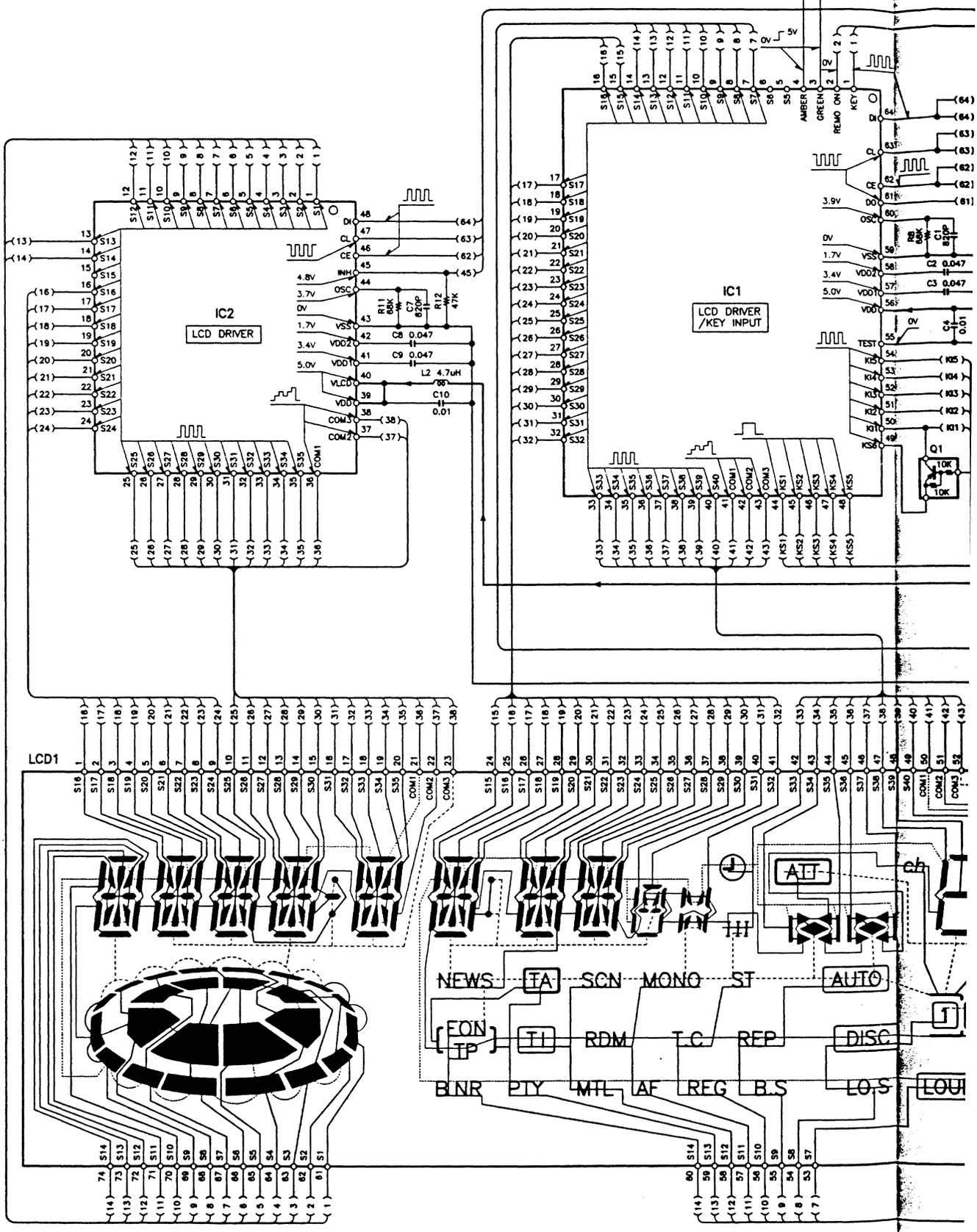


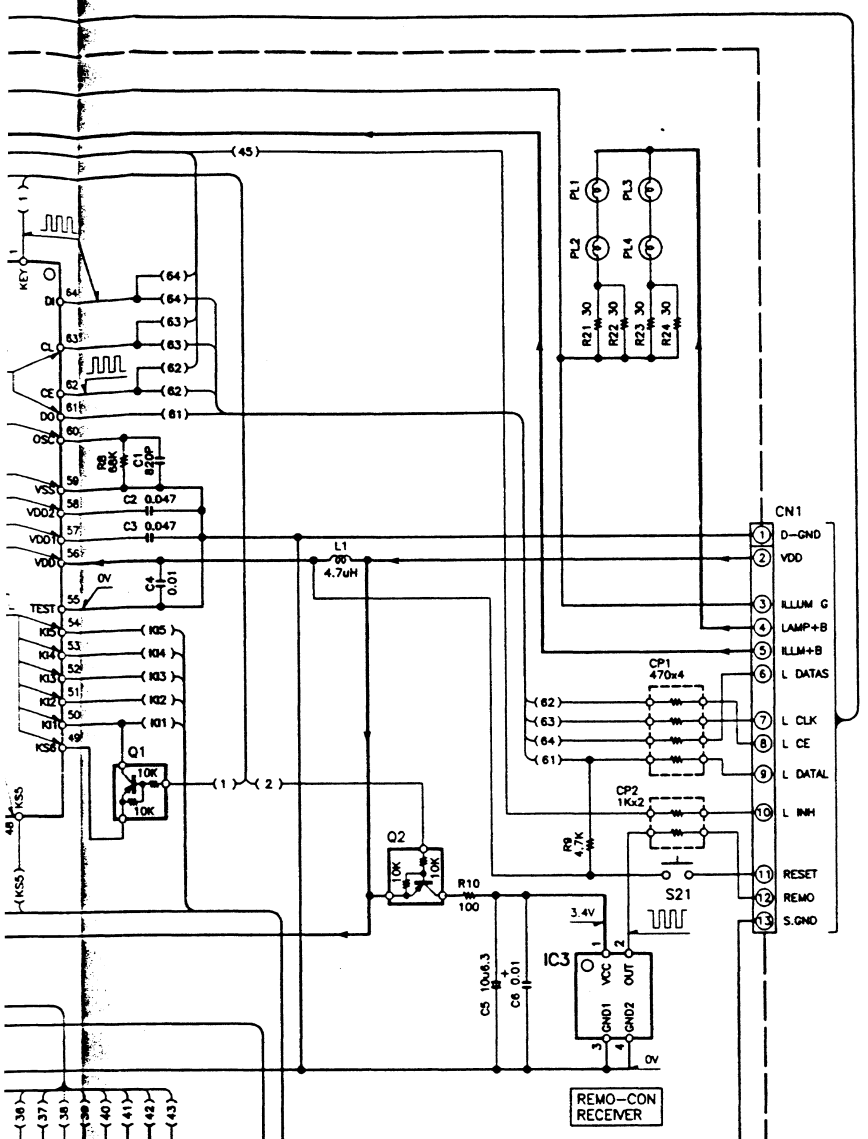
CF1,2	W1
L72-0716	NO
L72-0715	YES
L72-0715	YES
L72-0716	NO
L72-0715	YES
L72-0715	YES
L72-0715	YES
L72-0716	NO

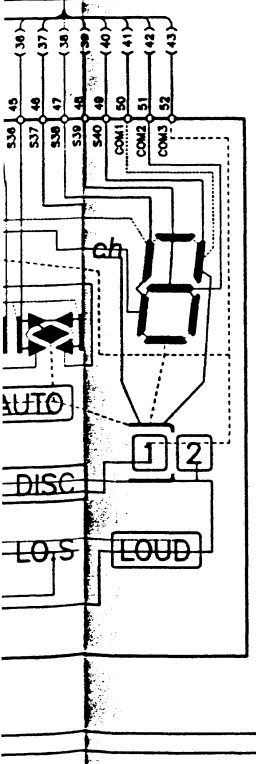
IC1 : LC75853NE
IC2 : LC75833E
IC3 : PAS-B06B1FE

Q1,2 : DTA114EK
Q3,4 : 2SD2114K
D1-9 : B30-1349-05

GND LINE
+B LINE


IC2
LCD DRIVER
IC1
LCD DRIVER
/KEY INPUT
LCD1
NEWS
TA
SCN
MONO
ST
AUTO
FON
TP
TI
RDM
T.C
REP
DISC
BINR
PTY
MTL
AF
REG
B.S
LO.S
ATT
ch





MODEL NAME	UNIT No.	S5	R18,27
KRC-953	0-11	YES	YES
KRC-883W			
KRC-958R	2-70	NO	NO
KRC-993			
KRC-858R/C/W			
KRC-803			
KRC-903			
KRC-758R			

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

KRC-758R/803/858R/C/W /883W/903/953/958R/993

KENWOOD

SPECIFICATIONS

KRC-803/903/953

FM tuner section
Frequency range (200kHz Space) ..... 87.9MHz ~ 107.9MHz
Usable sensitivity (S/N : 30dB) 9.3dBf (0.8μV/75Ω)
Quieting Sensitivity (S/N : 50dB) 15.2dBf (1.6μV/75Ω)
Frequency response (±3.0dB) ..... 30Hz ~ 15kHz
Signal to Noise ratio (MONO) 75dB
Selectivity (±400kHz) ..... ≧80dB
Stereo Separation (1kHz) 40dB

AM tuner section
Frequency range (10kHz Space) ..... 530kHz ~ 1700kHz
Usable sensitivity (S/N = 20dB) 28dBμ (25μV)

Cassette player section
Tape Speed ..... 4.76cm/sec.
Wow & Flutter (WRMS) 0.08%
Frequency response (70μs) ..... 30Hz ~ 20kHz (±3dB)
Separation (1kHz) 43dB
Signal to Noise ratio (Dolby B NR OFF) 57dB
(Dolby B NR ON) 65dB

Audio section
Maximum output power ..... 35W x 4
Full bandwidth power (at less than 1% THD) ..... 20W x 4
Tone action
Bass ..... 100Hz ±10dB
Treble ..... 10kHz ±10dB
Preout level / load ..... 4V/10kΩ (during disc changer mode)
Preout Impedance 80Ω

General
Operating voltage ..... 14.4V (11 ~ 16V allowable)
Current consumption ..... 10A at Rated power
Installation size (W x H x D) ..... 182 x 53 x 161 mm
7-3/16 x 2-1/16 x 6-5/16 inch
Weight 1.8kg
4.0LBS

KRC-883W/993

FM tuner section
Frequency range
(200kHz Space) ..... 87.9MHz ~ 107.9MHz
(50kHz Space) ..... 87.5MHz ~ 108.0MHz
Usable sensitivity (S/N : 30dB) 9.3dBf (0.8μV/75Ω)
Quieting Sensitivity (S/N : 50dB) 15.2dBf (1.6μV/75Ω)
Frequency response (±3.0dB) ..... 30Hz ~ 15kHz
Signal to Noise ratio (MONO) 75dB
Selectivity (±400kHz) ..... ≧80dB
Stereo Separation (1kHz) 40dB

AM tuner section
Frequency range
(10kHz space) ..... 530kHz ~ 1700kHz
(9kHz Space) ..... 531kHz ~ 1611kHz
Usable sensitivity (S/N = 20dB) 28dBμ (25μV)

Cassette player section
Tape Speed ..... 4.76cm/sec.
Wow & Flutter (WRMS) 0.08%
Frequency response (70μs) ..... 30Hz ~ 20kHz (±3dB)
Separation (1kHz) 43dB
Signal to Noise ratio (Dolby B NR OFF) 57dB
(Dolby B NR ON) 65dB

Audio section
Maximum output power ..... 35W x 4
Full bandwidth power (at less than 1% THD) ..... 20W x 4
Tone action
Bass ..... 100Hz ±10dB
Treble ..... 10kHz ±10dB
Preout Level / Load
(KRC-993) ..... 4V/10kΩ (during disc changer mode)
(KRC-883W/773) 1800mV/10kΩ
Preout Impedance
(KRC-993) 80Ω
(KRC-883W/773) ..... ≦600Ω

General
Operating voltage ..... 14.4V (11 ~ 16V allowable)
Current consumption ..... 10A at Rated power
Installation size (W x H x D) ..... 182 x 53 x 161 mm
7-3/16 x 2-1/16 x 6-5/16 inch
Weight 1.8kg
4.0LBS

KRC-758R/803/858R/C/W
/883W/903/953/958R/993

SPECIFICATIONS

KRC-758R/858R/C/W/958R

FM tuner section

Frequency range (50kHz Space)	87.5MHz ~ 108.0MHz
Usable sensitivity (S/N = 26dB)	0.7μV/75Ω
Quieting Sensitivity (S/N = 46dB)	1.6μV/75Ω
Frequency response (±3.0dB)	30Hz ~ 15kHz
Signal to Noise ratio (MONO)	68dB
Selectivity (DIN) (±400kHz)	≧80dB
Stereo Separation (1kHz)	35dB

MW tuner section

Frequency range (9kHz Space)	531kHz ~ 1611kHz
Usable sensitivity (S/N = 20dB)	30μV

LW tuner section

Frequency range	153kHz ~281kHz
Usable sensitivity (S/N = 20dB)	45uV

Cassette player section

Tape Speed		4.76cm/sec.
Wow & Flutter (WRMS)		0.08%
Frequency response (70μs)		30Hz ~ 20kHz (±3dB)
Separation (1kHz)		40dB
Signal to Noise ratio	(Dolby B NR OFF)	57dB
	(Dolby B NR ON)	65dB

Audio section

Maximum output power	35W × 4
Output power (DIN 45324, +B=14.4V)	25W × 4
Tone action	
Bass	100Hz ±10dB
Treble	10kHz ±10dB
Preout level / load	
(KRC-958R)	4V/10kΩ (during disc changer mode)
(KRC-858R/C/W,758R)	1800mV/10kΩ
Preout Impedance	
(KRC-958R)	80Ω
(KRC-858R/C/W,758R)	≦600Ω

General

Operating voltage	14.4V (11 ~ 16V allowable)
Current consumption	10A at Rated power
Installation size (W × H × D)	182 × 53 × 161 mm
Weight	1.8kg

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P.O. Box 55-2791, Piso 6, Plaza Chase, Cl. 47 y,
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8 Figtree Drive, Australia Centre, Homebush, N.S.W. 2140, Australia

KENWOOD & LEE ELECTRONICS LTD.
Unit 3712-3724, Level 37, Tower 1, Metroplaza,
223 Hing Fong Road, Kwai Fong, N.T., Hong Kong

KENWOOD ELECTRONICS GULF FZE
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KENWOOD ELECTRONICS (THAILAND) CO., LTD.
573/111 Soi Ramkhamhaeng 39, Ramkhamhaeng Road,
Wangthonglang, Bangkapi, Bangkok, 10310 Thailand

KENWOOD ELECTRONICS SINGAPORE PTE. LTD.
1 Genting Lane, #07-00, Kenwood Building, Singapore 349544

KENWOOD ELECTRONICS (MALAYSIA) SDN BHD
#4.01 Level 4, Wisma Academy, Lot 4A, Jalan 19/1,
46300 Petaling Jaya, Selangor, Malaysia

CIRCUIT DESCRIPTION

Device	Purpose,Function	Operation,condition,compatibility
Q301	Main moter+B driver	ON while the main motor of the cassette mechanism is operating.
Q302	Main moter SW	ON while the main motor of the cassette mechanism is operating.
Q303,305	LAMP+B Regulator	ON at power ON.
Q304,307	SUB motor+B Regulator	ON at power ON.
Q306,308	SUB motor+B Regulator SW	ON at power ON.
Q309,310	ILL+B Regulator	ON at power ON.
Q311	Reset sw	ON at reset.

Switch Unit (X13-905X-XX)

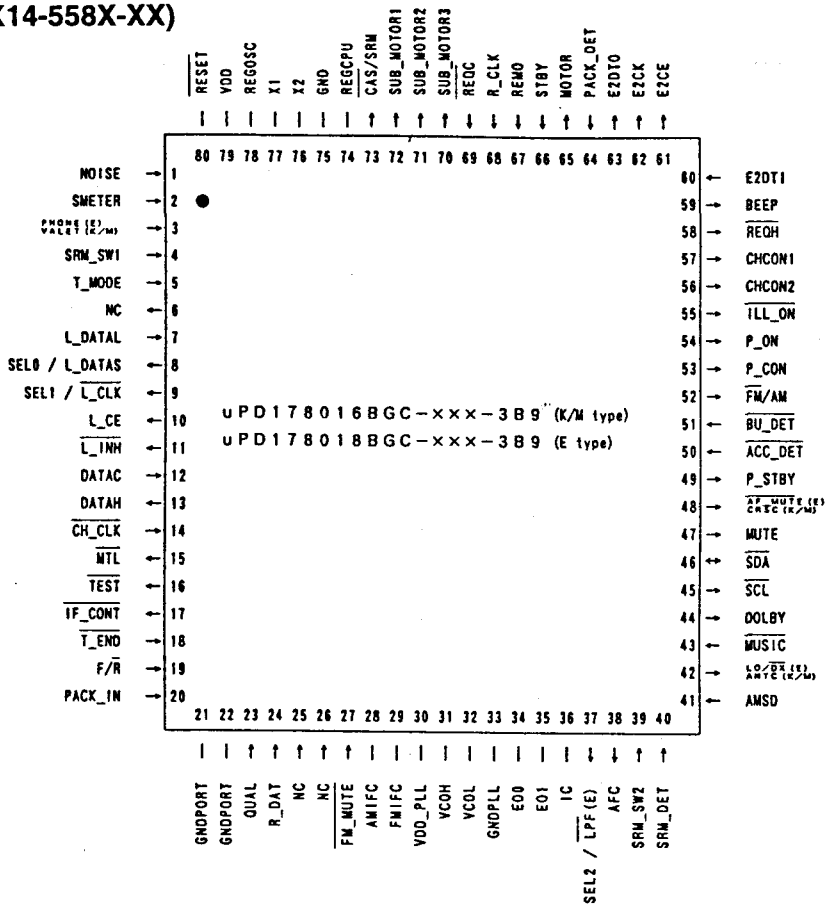
Device	Purpose,Function	Operation,condition,compatibility
IC1	1/3 duty LCD display driver with key input	
IC2	1/2 duty general-purpose LCD display driver	
IC3	Remote sensor	
Q1	Key scan start SW	ON at power ON.
Q2	Remocon Vcc SW	ON at power ON.
Q3	ILL AMBER SW	ON for amber illumination.
Q4	ILL GREEN SW	ON fro green illumination.

CIRCUIT DESCRIPTION

IC1:178016BGC51X (X14-558X-XX)
178018BGC511

Microcomputer

Pin layout

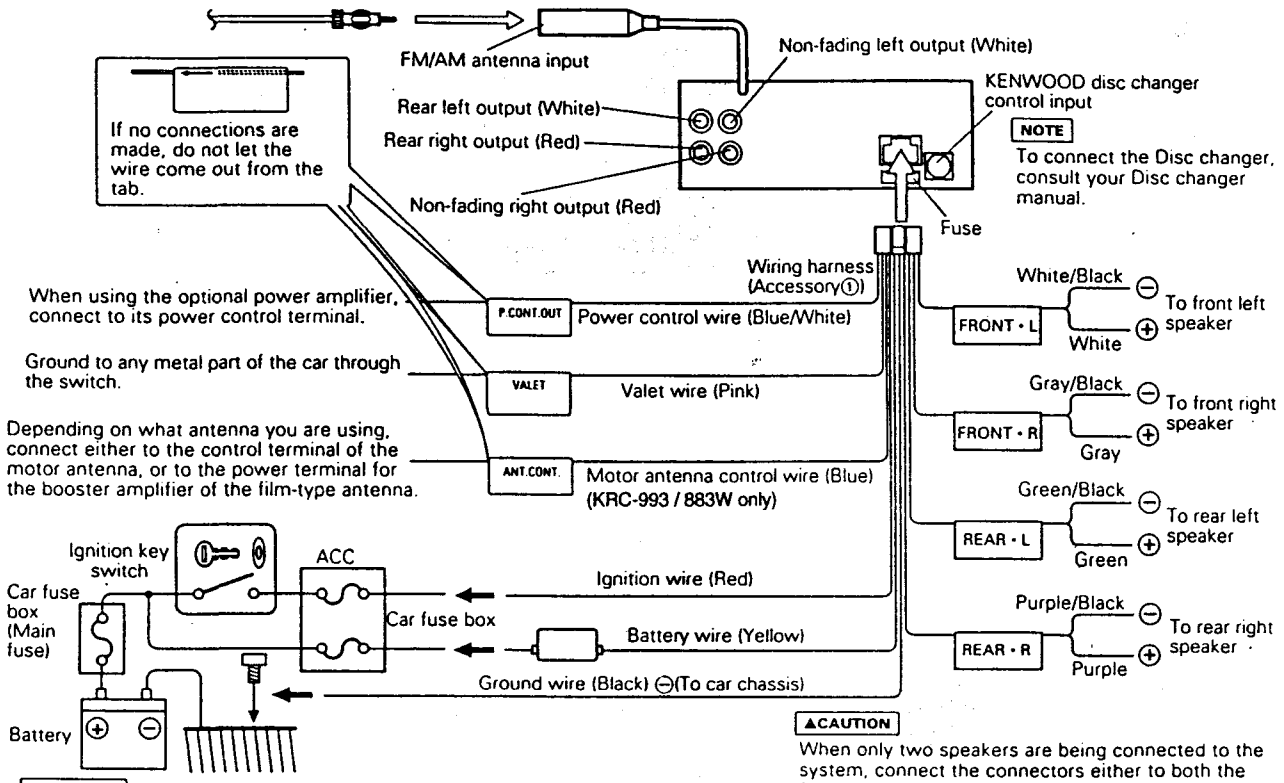


Terminal descriptions

Pin No.	Pin Name	I/O	Description	Halt
1	NOISE	I	FM noise detection analog input.	
2	SMETER	I	FM S meter detection analog input.	
3	PHONE (E) VALET (K/M)	I I	Phone/navigation muting input. Valet/demonstration input.	
4	SRM_SW1	I	Position detection input from SRM.	H:ON
5	T_MODE	I	Cassette mechanism mode input.	
6	NC	O	Not used.	
7	L_DATAL	O	Data input from LCD driver.	
8	L_DATAS	I	Data output from LCD driver.	
9	L_CLK	O	Clock output to LCD driver.	
10	L_CE	O	CE output to LCD driver.	
11	L_INH	O	Reset output to LCD driver.	L:OFF
12	DATAC	I	Data input from CH.	
13	DATAH	O	Data output to CH.	
14	CH_CLK	I	Clock input from CH.	
15	MTL	O	Normal/Metal switching output.	L:METAL
16	TEST	O	Temperature rise protection circuit inhibit output.	L:In test mode
17	IF_CONT	O	AM IF count control output.	L:During seek
18	T_END	I	Tape transport condition detection input.	H:During transport
19	F/ R	I	Tape FWD/REV detection input.	H:FWD L:REV
20	PACK_IN	I	Cassette mechanism pack-in detection input.	H:PACKIN
21	GNDPORT		Grounding.	
22	VDDPORT		5 V.	
23	QUAL	I	RDS receiving condition.	

CONNECTIONS

KRC-803/883W/903/953/993


FM/AM antenna input
Non-fading left output (White)
KENWOOD disc changer control input
NOTE
To connect the Disc changer, consult your Disc changer manual.
Rear left output (White)
Rear right output (Red)
Non-fading right output (Red)
If no connections are made, do not let the wire come out from the tab.
Fuse
Wiring harness (Accessory①)
When using the optional power amplifier, connect to its power control terminal.
P.CONT.OUT
Power control wire (Blue/White)
Ground to any metal part of the car through the switch.
VALET
Valet wire (Pink)
Depending on what antenna you are using, connect either to the control terminal of the motor antenna, or to the power terminal for the booster amplifier of the film-type antenna.
ANT.CONT.
Motor antenna control wire (Blue)
(KRC-993 / 883W only)
White/Black
To front left speaker
FRONT • L
White
Gray/Black
To front right speaker
FRONT • R
Gray
Green/Black
To rear left speaker
REAR • L
Green
Purple/Black
To rear right speaker
REAR • R
Purple
Ignition key switch
ACC
Car fuse box (Main fuse)
Ignition wire (Red)
Car fuse box
Battery wire (Yellow)
Ground wire (Black) ⊖(To car chassis)
Battery

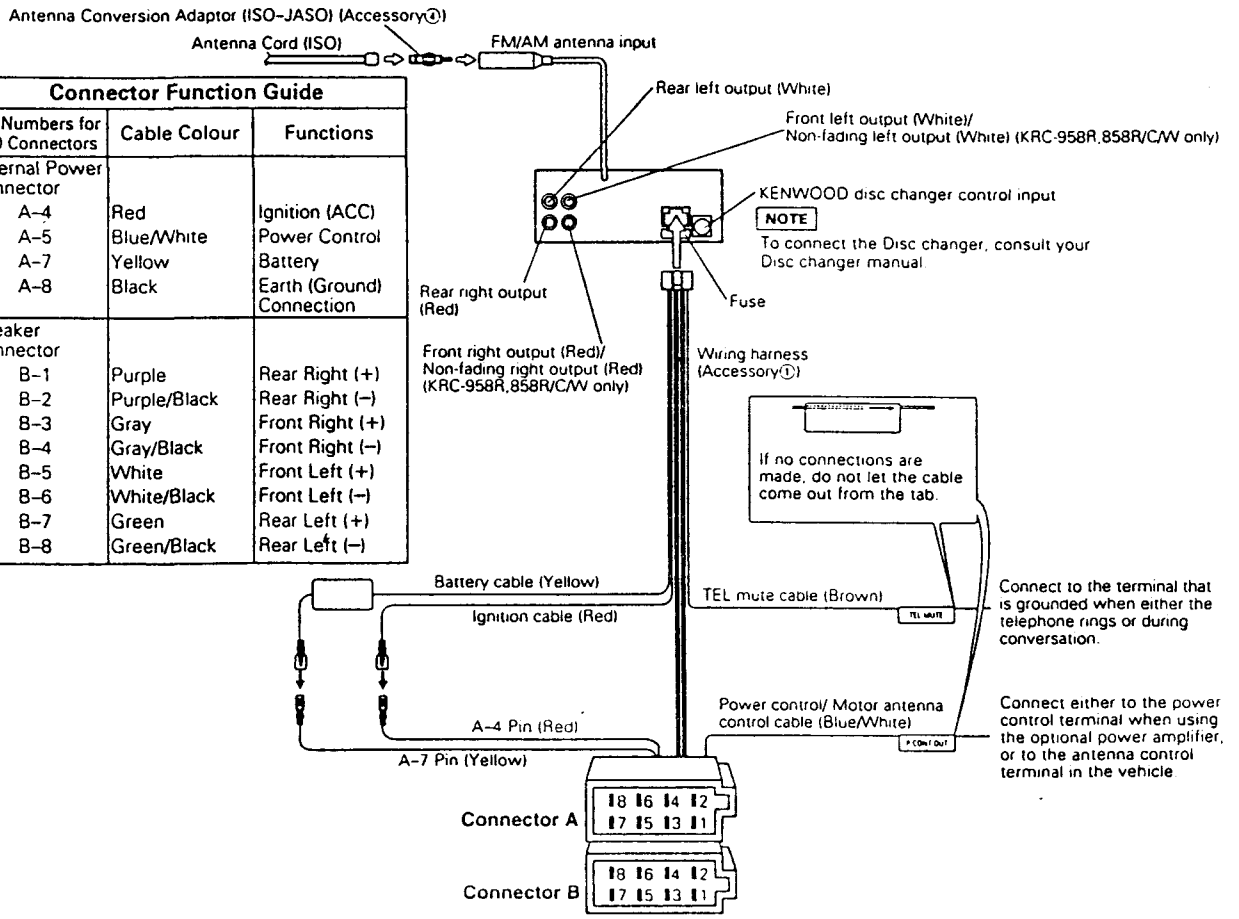
▲WARNING

If you connect the ignition wire (red) and the battery wire (yellow) to the car chassis (ground), you may cause a short circuit, that in turn may start a fire. Always connect those wires to the power source running through the fuse box.

▲CAUTION

When only two speakers are being connected to the system, connect the connectors either to both the front output terminals or to both the rear output terminals (do not mix front and rear). For example, if you connect the ⊕ connector of the left speaker to a front output terminal, do not connect the ⊖ connector to a rear output terminal.

KRC-758R/858R/C/W/958R


Antenna Conversion Adaptor (ISO-JASO) (Accessory④)
Antenna Cord (ISO)
FM/AM antenna input
Rear left output (White)
Front left output (White)/
Non-fading left output (White) (KRC-958R,858R/C/W only)
KENWOOD disc changer control input
NOTE
To connect the Disc changer, consult your Disc changer manual.
Rear right output (Red)
Fuse
Front right output (Red)/
Non-fading right output (Red)
(KRC-958R,858R/C/W only)
Wiring harness (Accessory①)
If no connections are made, do not let the cable come out from the tab.
Battery cable (Yellow)
Ignition cable (Red)
TEL mute cable (Brown)
TEL MUTE
Connect to the terminal that is grounded when either the telephone rings or during conversation.
Power control/ Motor antenna control cable (Blue/White)
P.CONT.OUT
Connect either to the power control terminal when using the optional power amplifier, or to the antenna control terminal in the vehicle.
A-4 Pin (Red)
A-7 Pin (Yellow)
Connector A
Connector B

Connector Function Guide

Pin Numbers for ISO Connectors	Cable Colour	Functions
External Power Connector		
A-4	Red	Ignition (ACC)
A-5	Blue/White	Power Control
A-7	Yellow	Battery
A-8	Black	Earth (Ground) Connection
Speaker Connector		
B-1	Purple	Rear Right (+)
B-2	Purple/Black	Rear Right (–)
B-3	Gray	Front Right (+)
B-4	Gray/Black	Front Right (–)
B-5	White	Front Left (+)
B-6	White/Black	Front Left (–)
B-7	Green	Rear Left (+)
B-8	Green/Black	Rear Left (–)

CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Description	Halt
72	SUB_MOTOR1	O	Cassette mechanism/SRM sub-motor output 1	
73	CAS /SRM	O	Cassette mechanism/SRM sub-motor voltage switching output.	H:SRM L:TAPE
74	REGCPU		CPU power regulator.	
75	GND		Grounding.	
76	X2		X'tal connection.	
77	X1		X'tal connection.	
78	REGOSC		Regulator for oscillator.	
79	VDD		Power voltage terminal.	
80	RESET		Reset input.	

Security Code Write Procedure After E2PROM Replacement

The security code can be written only when the E2PROM has been replaced with a E2PROM in which nothing is written.

1. Code write procedure

1) With the power ON, switch the source to ALL OFF, then press and hold preset key 6 for 3 seconds.

ENTER
CODE - - - -
↓

2) Enter the desired code using preset keys [1] to [4].

Example of entering code 1240

[1] ···· CODE 0 - - -
↓
[1] ···· CODE 1 - - -
↓
[2] ···· CODE 1 0 - -
↓
[2] ···· CODE 1 1 - -
↓
[2] ···· CODE 1 2 - -
↓
[3] ···· CODE 1 2 0 -
↓
[3] ···· CODE 1 2 1 -
↓
[3] ···· CODE 1 2 2 -
↓
[3] ···· CODE 1 2 3 -
↓
[3] ···· CODE 1 2 4 -
↓
[4] ···· CODE 1 2 4 0
↓

When the 4th digits have been entered
↓

3) Press and hold the CLK key for 3 seconds · · · Completion of code entry.

APPROVED
↓

4) Set the RESET switch to ON.

Now the code write procedure has completed. The security mode is set entirely to the initial condition.

* To quit this mode in the middle (before the end of step 2), simply turn power OFF. The same operation can be restarted from step 1.
* Be sure to write the security code following the above procedure. If you commit a mistake or hold the CLK key for 3 seconds or mode in the middle of the code entry, normal code will not be written in the E2PROM.

CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Description	Halt
24	R_DAT	I	RDS data input.	
25	NC	I	Not used.	
26	NC	I	Not used	
27	FM_MUTE	I	Band muting detection input.	L:Station detected
28	AMIFC		AM IF count input.	
29	FMIFC		FM IF count input.	
30	VDDPLL		5 V.	
31	VCOH		FM OSC input.	
32	VCOL		AM OSC input.	
33	GNDPLL		Grounding.	
34	EO0		PLL error output 0.	
35	EO1		PLL error output 1.	
36	IC (VPP)		Grounding.	
37	LPF (E)	O	Low-pass filter switching output.	H:During reception
38	AFC	O	AFC output.	H:During reception
39	SRM_SW2	I	Position detection input 2 from SRM.	
40	SRM_DET	I	SRM detection input.	L:During detected
41	AMSD	I	AM station detection input.	H:Station detected
42	LO/ DX (E)	O	Local output.	H:ON
	ANTC (K/M)	O	Antenna control output.	H:ON
43	MUSIC	I	Tape music detection input.	L:Music detected
44	DOLBY	O	Dolby control output.	H:ON
45	SCL	O	Clock output to E-Vol circuit.	
46	SDA	I/O	Data input/output from/to E-Vol circuit.	
47	MUTE	O	Muting output.	H:MUTE ON
48	AF/MUTE (E)	O	AF muting output.	L:ON
	CRSC (K/M)	O	CRSC output.	H:ON
49	P_STBY	O	Power amplifier STBY output.	H:ON
50	ACC_DET	I	Acc detection input.	L:Acc detected
51	BU_DET	I	Momentary power-down detection input.	H:Power down
52	FM/AM	O	FM/AM switching control output.	H:AM L:FM
53	P_CON	O	Power control output.	H:ON
54	P_ON	O	Microcomputer peripheral power control output.	H:ON
55	ILL_ON	O	Illumination output.	L:ON
56	CHCON2	O	CH2 control output.	H:ON
57	CHCON1	O	CH1 control output.	H:ON
58	REQH	O	Request to CH.	L:Requested
59	BEEP	O	Beep output.	
60	E2DTI	I	Data input from E2PROM.	
61	E2CE	O	CE output to E2PROM.	
62	E2CK	O	Clock output to E2PROM.	
63	E2DTO	O	Data output to E2PROM.	
64	PACK_DET	I	Cassette mechanism pack detection.	H:Pack detected
65	MOTOR	O	Cassette mechanism main motor control output.	H:ON
66	STBY	I	Cassette mechanism STBY input.	H:STBY
67	REMO	I	Remote control signal input.	
68	R_CLK	I	RDS clock input.	
69	REQC	I	Request from CH.	L:Requested
70	SUM_MOTOR3	O	Cassette mechanism/SRM sub-motor output 3	
71	SUB_MOTOR2	O	Cassette mechanism/SRM sub-motor output 2	

CIRCUIT DESCRIPTION

1. **Code permission procedure**
   1) With the power ON, switch the source to ALL OFF, then press and hold preset key 6 for 3 seconds.

      ENTER
      CODE - - - -
      ↓

   2) Enter the desired code using preset keys [1] to [4].

      Example of entering code 1240

      [1] ···· CODE 0 - - -
      ↓
      [1] ···· CODE 1 - - -
      ↓
      [2] ···· CODE 1 0 - -
      ↓
      [2] ···· CODE 1 1 - -
      ↓
      [2] ···· CODE 1 2 - -
      ↓
      [3] ···· CODE 1 2 0 -
      ↓
      [3] ···· CODE 1 2 1 -
      ↓
      [3] ···· CODE 1 2 2 -
      ↓
      [3] ···· CODE 1 2 3 -
      ↓
      [3] ···· CODE 1 2 4 -
      ↓
      [4] ···· CODE 1 2 4 0
      ↓
      When the 4th digits have been entered
      ↓

   3) Press and hold the CLK key for 3 seconds · · · Completion of code entry.

      RE-ENTER
      CODE - - - -

   4) Enter the code again in the same way as step 2.
   5) Press and hold the CLK key for 3 seconds · · · Completion of code entry.

      APPROVED.
      ↓
      The previous source is recalled and the code is permitted

   * To quit this mode in the middle (before the end of step 2), simply turn power OFF. The same operation can be restarted from step 1.
   * Be sure to follow the above procedure. Note that the code cannot be entered if the panel is in the ejected position.

Code request mode

When the power of the unit is turned ON after the unit has been reset while the security function is activated, this mode requests the user to enter the previously-set code.

■ Operation description

- The code should be entered using 4 numeric keys [1], [2], [3] and [4].
- Each press of keys [1], [2], [3] and [4] increments the digit of 1000, 100, 10 and 1 respectively.
- When the 4th digits have been entered, the code is subjected to judgment and the power is turned ON only when it is correct.
- In case the entered code is incorrect, the unit does not enter the wait state but return to the initial display of the code request mode and the code should be entered from the beginning.

Code cancellation mode (simplified code)

Even after the security code has been registered, the security function can be deactivated.

■ Operation description

- In the code request mode, press and hold the [CLOCK] + [VOL UP] keys for 3 seconds to enter the code cancellation mode.
- Enter "KCAR" from the remote control unit. These characters should be displayed.
  Code cancellation mode procedure (The code is KCAR.)

Entered Key		Operation
[CLOCK] + [VOL UP]		Cancellation mode ON.
[5] twice		K is selected.
[▶▶]		K is set.
[2] twice		C is selected.
[▶▶]		C is set.
[2] once		A is selected.
[▶▶]		A is set.
[7] twice		R is set.
[▶▶]	OK	Cancellation OK, display cleared.
	No Good	Restart. CODE---- displayed.

MECHANISM OPERATION DESCRIPTION

NOTES FOR ASSEMBLING THE SRM MECHANISM

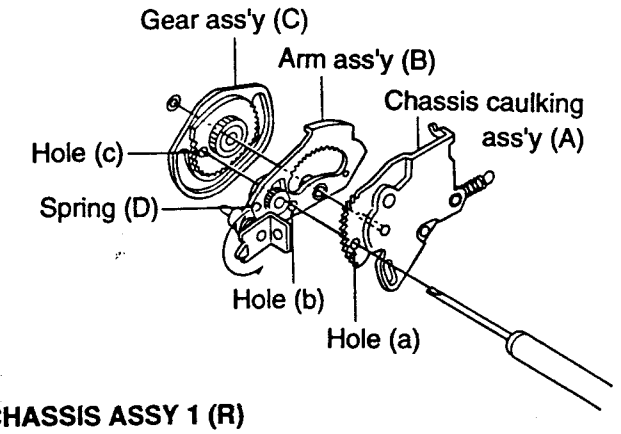
(1) Assembly of Chassis ass'y 1 (L) or Chassis ass'y 1 (R)

When assembling Chassis caulking ass'y (A), Arm ass'y (B) and Gear ass'y (C) of Chassis ass'y 1 (L) or (R), special care is required for the positioning of every gear.

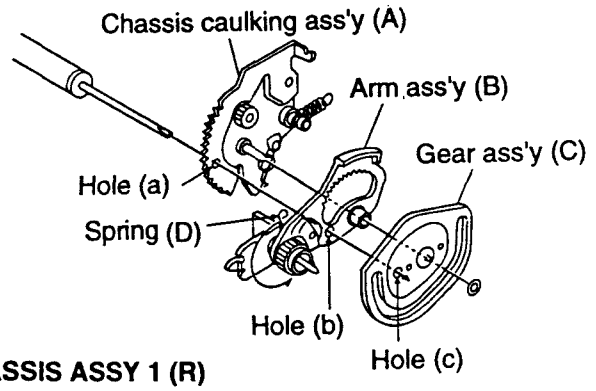
As shown in the illustration, align holes (a)-(c) and assemble so that shaft (x), holes (a)-(c), shaft (y) and tongue (z) form a straight line.

Maintain the alignment of holes (a)-(c) during the assembly work by passing a thin stick (with a diameter of about 1.3 mm) such as the shaft of a fine watchmaker's screwdriver through the holes. Spring (D) should be removed before the assembly work and attached again after it.

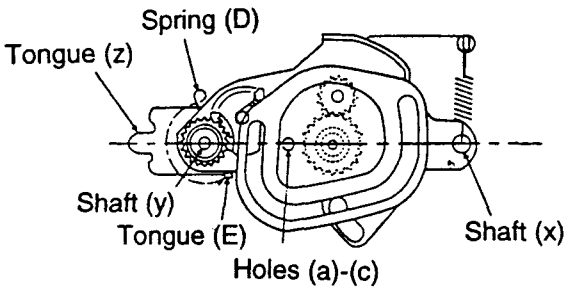
CHASSIS ASSY 1 (L)



CHASSIS ASSY 1 (R)



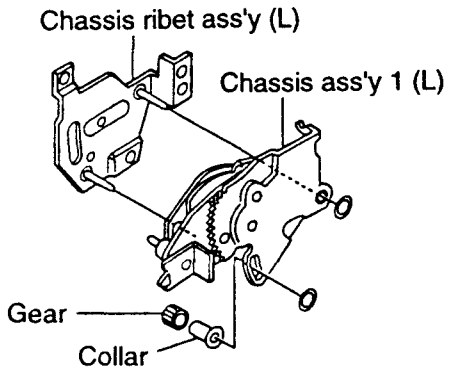
CHASSIS ASSY 1 (R)



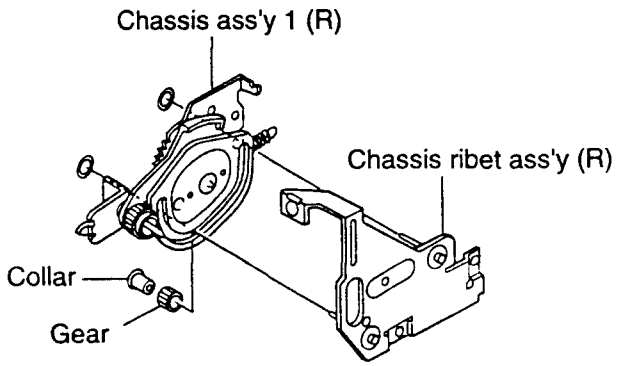
(2) Assembly of Chassis ass'y 2 (L) or Chassis ass'y 2 (R)

Assemble Chassis ass'y 1 (L) or (R), Chassis rebet ass'y (L) or (R), Collar and Gear with the position relationship as shown in the following illustration.

CHASSIS ASSY 2 (L)



CHASSIS ASSY 2 (R)



ABGLEICH

KRC-758R/858R/C/W/958R

Die Regler und Knöpfe wire folgt einstellen.
BALANCE :Mittelage BASS :Mittelage LOUD :OFF DOLBY NR :OFF
FADER :Mittelage TREBLE :Mittelage METAL :OFF

NR	GEGENSTAND	EINGANGS EINSTELLUNG	AUSGANGS EINSTELLUNG	TUNER (RECEIVER) EINSTELLUNG	ABGLEICH PUNKTE	ABGLEICHEN FUR	ABB.
UKW-ABTEILUNG							
1	DISKRI-MINATOR	(A) 98.1MHz 0 Hub 60dB μ (ANT-Eingang)	Den Gleichstrom Voltmeter Diskri CN11 anschließen (X14)	FM 98.1MHz	T1 (X14)	0V	(a)
2	ANRC (SUCHEN HALT PEGEL)	(C) 98.1MHz 1kHZ, ±40kHz Hub Pilot: ±6.0kHz Hub Wahler : L or R 35dB μ (ANT-Eingang)	(B)	FM 98.1MHz	VR3 (X14)	Trennung 10dB	
MW-ABTEILUNG							
(1)	SUCHEN HALT PEGEL	(D) 990kHz 0% mod 35dB μ (ANT-Eingang)	—	MW 990kHz	AM SD VR (A1)	HALT	(b)
CASSETTEN-DECK-ABTEILUNG							
[1]	AZIMUTH	TCC-153 10kHz	(B)	Bandwiedergabe	Kopfazimuts-chraube	So einstellen, daß das Azimuth für jeweils L-CH/R-CH oder FWD/RVS maximal wird.	(c)
[2]	PLAY BACK LEVEL	TCC-130	Connect an AC voltmeter to CN10 (X14)	TAPE PLAY	VR1 (L) VR2 (R) (X14)	300mV	(d)

ADJUSTMENT

KRC-758R/858R/C/W/958R

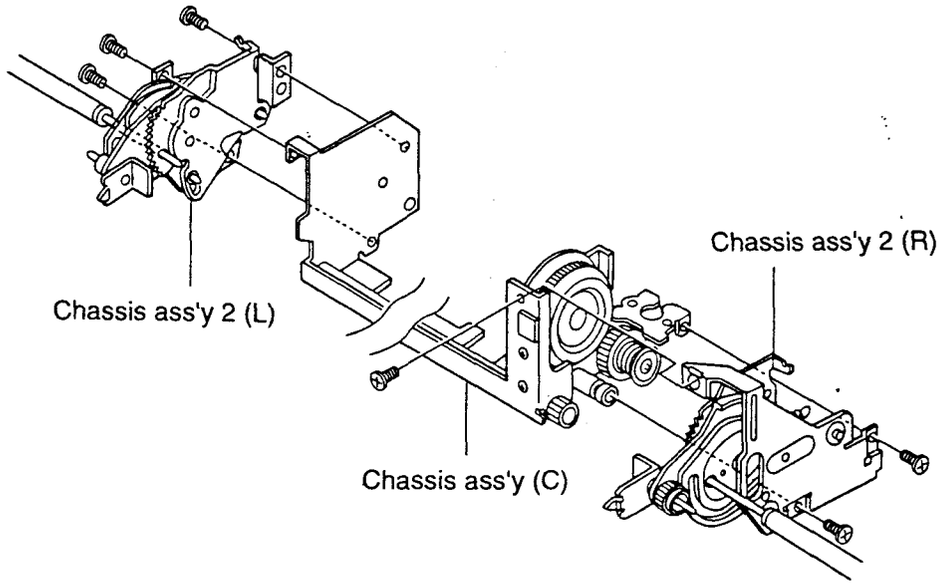
Set the controls and switches as follows.
BALANCE :center position BASS :center position LOUD :OFF DOLBY NR :OFF
FADER :center position TREBLE :center position METAL :OFF

No	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER (RECEIVER) SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION							
1	DISCRI-MINATOR	(A) 98.1MHz 0dev 60dB μ (ANT input)	Connect a DC voltmeter to CN11 (X14)	FM 98.1MHz	T1 (X14)	0V	(a)
2	ANRC	(C) 98.1MHz 1kHz, ±40kHz dev Pilot: ±6.0kHz dev Selector: L or R 35dB μ (ANT input)	(B)	FM 98.1MHz	VR3 (X14)	Separation 10dB	
AM SECTION							
(1)	SEEK STOP LEVEL	(D) 990 kHz 0% mod 35dB μ (ANT input)	—	AM 990 kHz	AM SD VR (A1)	STOP	(b)
CASSETTE DECK SECTION							
[1]	AZIMUTH	TCC-153 10kHz	(B)	TAPE PLAY	Head Azimuth Screw	Adjust the azimuth for each Lch/Rch or FWD/RVS becomes maximum	(c)
[2]	PLAY BACK LEVEL	TCC-130	Connect an AC voltmeter to CN10 (X14)	TAPE PLAY	VR1 (L) VR2 (R) (X14)	300mV	(d)

MECHANISM OPERATION DESCRIPTION

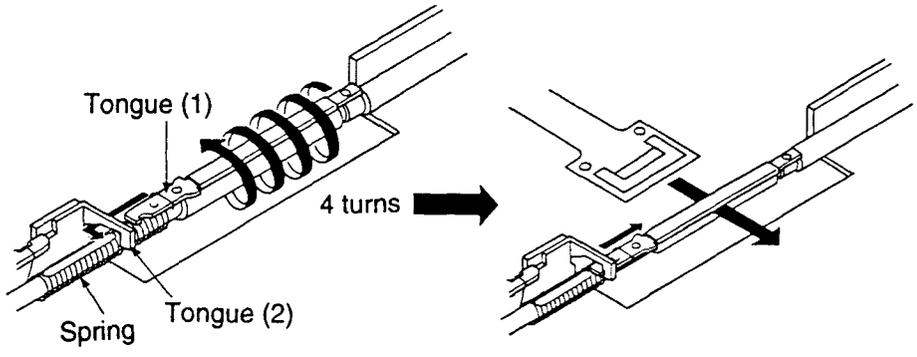
(3) Assembly of Chassis ass'y 2 (L), Chassis ass'y 2 (R) onto Chassis ass'y (C)

When assembling these ass'ies together, the gears of Chassis ass'y 2 (L) and Chassis ass'y 2 (R) should be in the same position on each ass'y.
Similarly to (1) above, pass a thin screwdriver shaft through holes (a)-(c) of each of Chassis ass'y 2 (L) and Chassis ass'y 2 (R), and attach them onto Chassis ass'y (C).



(4) Assembly of FPC (Flexible PC board) onto Roller ass'y

Turn Roller ass'y by 4 turns.
Ensure that the white painting on the spring draws a single straight line.
Hook tongue (1) of Roller ass'y to tongue (2).
Insert the FPC into the slit of Roller ass'y then release tongues (1) and (2) of Roller ass'y.



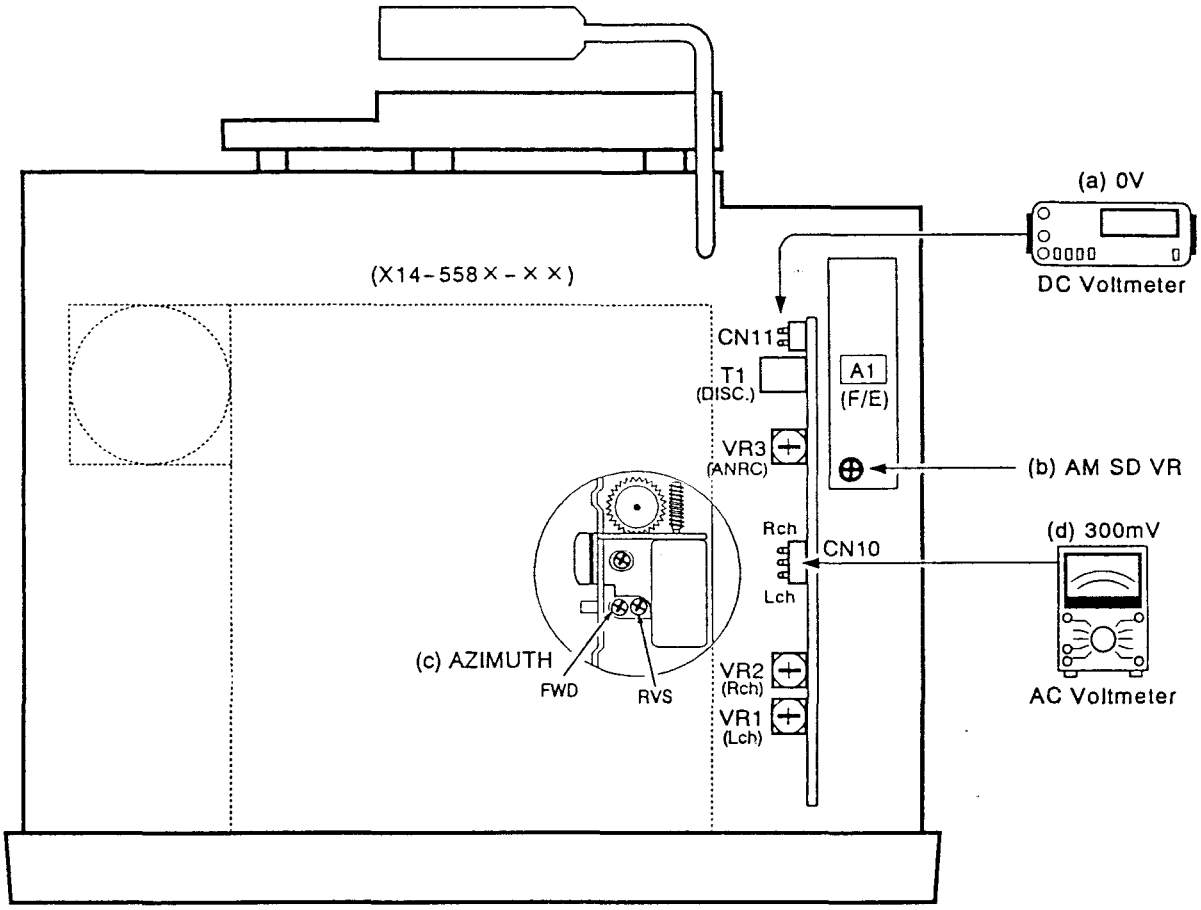
ADJUSTMENT

KRC-803/883W/903/953/993

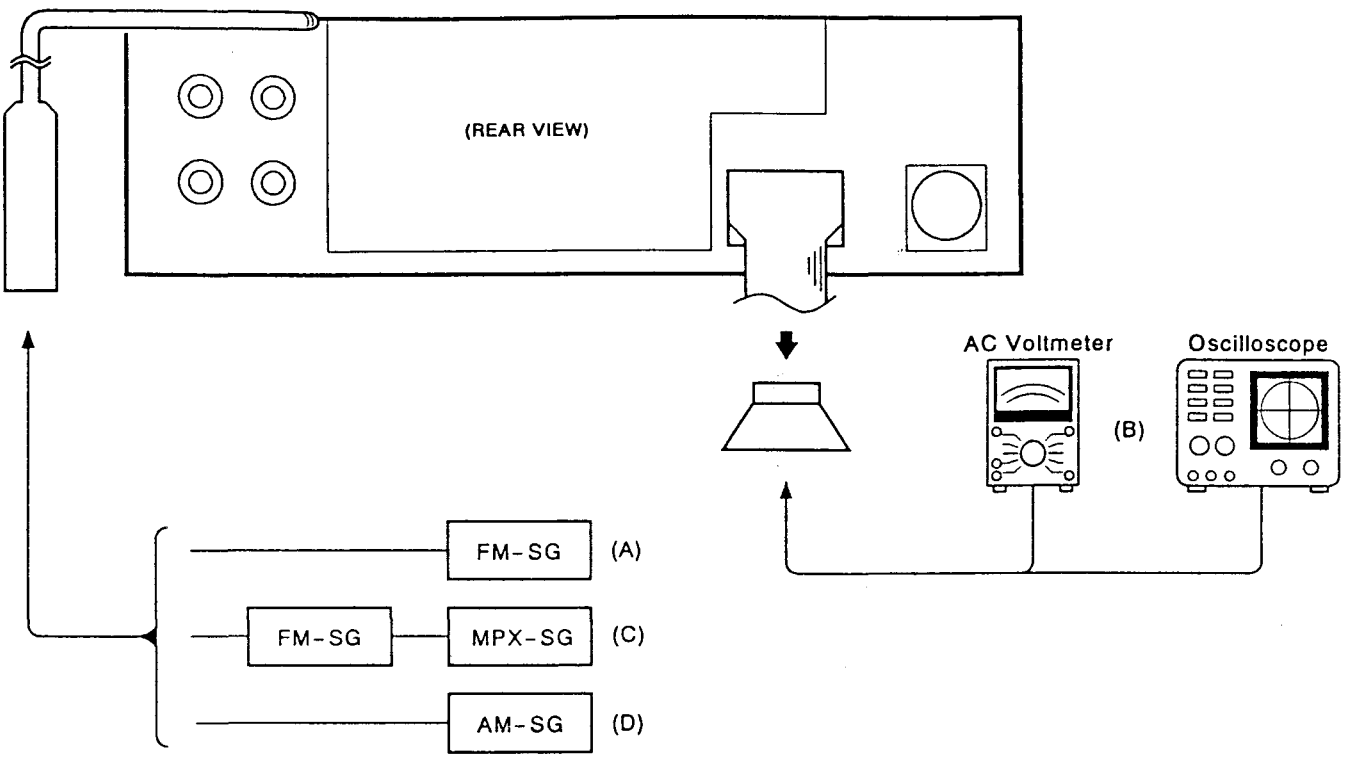
Set the controls and switches as follows.
BALANCE :center position BASS :center position LOUD :OFF DOLBY NR :OFF
FADER :center position TREBLE :center position METAL :OFF

No	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER (RECEIVER) SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION							
1	DISCRI-MINATOR	(A) 98.1MHz 0dev 60dB μ (ANT input)	Connect a DC voltmeter to CN11 (X14)	FM 98.1MHz	T1 (X14)	0V	(a)
2	ANRC	(C) 98.1MHz 1kHz, ±67kHz dev Pilot: ±7.5kHz dev Selector:L or R 35dB μ (ANT input)	(B)	FM 98.1MHz	VR3 (X14)	Separation 10dB	
AM SECTION							
(1)	SEEK STOP LEVEL	(D) 990 kHz 0% mod 35dB μ (ANT input)	–	AM 990 kHz	AM SD VR (A1)	STOP	(b)
CASSETTE DECK SECTION							
[1]	AZIMUTH	TCC-153 10kHz	(B)	TAPE PLAY	Head Azimuth Screw	Adjust the azimuth for each Lch/Rch or FWD/RVS becomes maximum	(c)
[2]	PLAY BACK LEVEL	TCC-130	Connect an AC voltmeter to CN10 (X14)	TAPE PLAY	VR1 (L) VR2 (R) (X14)	300mV	(d)

ADJUSTMENT


(a) 0V
DC Voltmeter
(X14-558X-XX)
CN11
T1
(DISC.)
A1
(F/E)
VR3
(ANRC)
(b) AM SD VR
Rch
CN10
Lch
(d) 300mV
(c) AZIMUTH
FWD
RVS
VR2
(Rch)
VR1
(Lch)
AC Voltmeter

ADJUSTMENT


(REAR VIEW)
AC Voltmeter
Oscilloscope
(B)
FM-SG
(A)
FM-SG
MPX-SG
(C)
AM-SG
(D)